



U.S. Department
of Transportation

Federal Aviation
Administration

Office of Safety Oversight

Location of Commercial Aircraft Accidents/Incidents Relative to Runways

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Technical Report Documentation Page

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|---|--|--|---|---|--|
| 1. Report No. DOT/FAA/AOV 90-1 | | 2. Government Accession No. | | 3. Recipient's Catalog No. | |
| 4. Title and Subtitle Location of Aircraft Accidents/Incidents Relative to Runways | | | | 5. Report Date July 1, 1990 | |
| | | | | 6. Performing Organization Code | |
| | | | | 8. Performing Organization Report No. DOT/FAA/AOV 90-1 | |
| 7. Author(s) Robert E. David, P.E. | | | | 10. Work Unit No. (TRAIS) | |
| 9. Performing Organization Name and Address Department of Transportation Federal Aviation Administration Office of Safety Oversight Washington, D.C. 20590 | | | | 11. Contract or Grant No. | |
| | | | | 13. Type of Report and Period Covered Final Report | |
| | | | | 14. Sponsoring Agency Code | |
| 12. Sponsoring Agency Name and Address | | | | | |
| 15. Supplementary Notes Distribution: A-W(AP/FS/AI/SF)-3; A-X(FS)-3; ZPS-344 | | | | | |
| 16. Abstract <p>The location of an aircraft involved in an accident or incident may be documented by the National Transportation Safety Board and the Federal Aviation Administration during the course of their investigation. When available, it will appear in the record of the individual investigation. However, this location information is not available from either of these agencies in a summary form.</p> <p>This study was undertaken to compile in one document the location relative to the runway of these accidents/incidents for aircraft involved in commercial air transportation in the United States. The study examined accidents/incidents that occurred from 1978 to 1987. Since it is intended that this information will be used mainly to make decisions on individual airports, no attempt was made to reach conclusions or make recommendations based on the data.</p> <p>The accidents/incidents used for this study were categorized as undershoots, landings off the runway, veeroffs, overruns, and other in the vicinity of the airport. The aircraft location was recorded in terms of the distance along the runway centerline or extended centerline (X distance) and the perpendicular distance from the centerline or extended centerline (Y distance).</p> | | | | | |
| 17. Key Words Accident, Incident, Undershoot, Landing Off, Veeroff Overrun | | | 18. Distribution Statement This document is available to the U.S. public through the National Technical Information Service, Springfield, VA 22161 | | |
| 19. Security Classif. (of this report) Unclassified | | 20. Security Classif. (of this page) Unclassified | | 21. No. of Pages 83 | |
| 22. Price | | | | | |

EXECUTIVE SUMMARY

Information on the location of aircraft accidents/incidents in the airport vicinity in relation to runways has many applications. It is useful to persons involved in the planning and design of an airport and its surrounding areas, as well as those responsible for day-to-day airport operations.

The location of an aircraft involved in an accident or incident may be documented by the National Transportation Safety Board and the Federal Aviation Administration during the course of their investigation. When available, it will appear in the record of the individual investigation. However, this location information is not available from either of these agencies in a summary form.

This study was undertaken to compile in one document the location relative to the runway of these accidents/incidents for aircraft involved in commercial air transportation in the United States. Since it is intended that this information will be used mainly to make decisions on individual airports, no attempt was made to reach conclusions or make recommendations based on the data.

The National Transportation Safety Board's dockets of commercial aircraft accidents/incidents that occurred from 1978 to 1987 were reviewed to determine the aircraft location. This review was limited to aircraft operating under Part 121, Part 129, and Part 135 of the Federal Aviation Regulations; only scheduled operations were examined under Part 135.

The accidents/incidents used for this study were categorized as undershoots, landings off the runway, veeroffs, overruns, and other in the vicinity of the airport. The aircraft location was recorded in terms of the distance along the runway centerline or extended centerline (X distance) and the perpendicular distance from the centerline or extended centerline (Y distance.)

Appendix 1 provides an explanation of the methodology used to identify applicable accidents/incidents and to determine the aircraft location. Appendix 2 provides a listing of all the accidents/incidents included in this study, while additional appendices list the accidents/incidents in each category.

FOREWORD

Over 500 accident/incident records were reviewed by the author as part of this study. Needless to say, the author received assistance from several people in this undertaking, and would like to take this opportunity to thank them and recognize their efforts.

First, Stan Smith and Dennis Cusack of the National Transportation Safety Board (NTSB) were very helpful in explaining the three computer data systems on which the accident/incident information is maintained and in setting criteria by which to identify records in these databases that were applicable to this study. They also provided a copy of the NTSB's computer tape for these accidents/incidents. This allowed the transfer of the data directly to a personal computer, thereby eliminating countless hours of data entry and errors that are inherent in such a task.

The NTSB's dockets are all stored on microfiche. Without Ms. Lara DePadilla's conscientious and systematic review of these dockets to extract the applicable data, this study would have never come to fruition. She was also responsible for most of the data entry of information that was not available directly from the NTSB computer tape.

Throughout the course of this study, the author spoke with employees from both the NTSB and the FAA who were involved in particular investigations to seek clarification of the information in the docket. Although there are too many to recognize individually, the author appreciated their sharing their recollections and is grateful for the information they provided.

Dave Thomas and Harold Donner of the FAA's Office of Accident Investigation and my colleague, Gale Braden, in the Office of Aviation Oversight, deserve specific recognition. In their positions with the FAA, as well as their former positions with the NTSB, they participated in the investigation of many of the accidents/incidents listed in this report. Although the information they provided regarding the details of individual accidents was very useful, their knowledge and explanation of the investigative procedures, as well as the comments they provided on the draft report, were particularly invaluable to the author.

Throughout this effort, the ability to review and sort data based on various parameters was essential. The author is indebted to Joe Baxter, Art Goon, and their colleagues at FU Associates for the technical assistance they provided on the computer aspects of this study.

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SECTION 1

INTRODUCTION

Background and Purpose

Commercial aviation has developed an outstanding safety record. However, occasionally there is a mishap, i.e., an accident or incident, in these operations:

- An accident involves fatalities, serious injuries, or major structural damage to the aircraft.
- An incident is a hazardous or potentially hazardous occurrence not classified as an accident because of the degree of injury and/or extent of damage.

The accident/incident could be due to equipment failure, human error, meteorological conditions, or any number of other conditions or combinations thereof.

When an accident/incident occurs in the vicinity of an airport, it is important to know the location of the aircraft relative to the runway. This information has many applications. To airport engineers, the aircraft location would be useful in developing new and/or revalidating existing airport design standards. For example, standards for runway protection zones and safety areas would be directly affected by this information. Aircraft accident/incident locations would also be important to officials responsible for making decisions on airport development and/or land uses in the vicinity of an airport. Persons involved in developing emergency response plans to aircraft accidents would also find this information useful, as would those responsible for day-to-day airport operations.

The aircraft's location in an accident/incident may be documented by the National Transportation Safety Board and the Federal Aviation Administration during the course of their investigation. When available, it appears in the record of the individual investigation. However, this location information is not available from either of these agencies in a summary form. This study was undertaken to compile in one document information on the location relative to the runway of accidents/incidents for aircraft involved in commercial air transportation in the United States.

Scope

Information in the National Transportation Safety Board's dockets of completed aviation accident and incident investigations during the period 1978-87 was used as the basis for this study.¹ Over 500 accidents/incidents were reviewed as part of this effort. Of these, 246 accidents/incidents were identified as relevant.

The dockets examined were limited to accidents and incidents occurring during the following operations:

- Operations under Federal Aviation Regulation (FAR) Part 121 (Certification and operations: Domestic, flag, and supplemental air carriers and commercial operators of large aircraft)--includes all revenue operations conducted by scheduled and unscheduled (e.g., charter) U.S. carriers.
- Operations under Part 129 (Operations of Foreign Air Carriers)--includes foreign air carriers conducting operations in the United States.
- Scheduled operations conducted under FAR Part 135 (Air Taxi Operators and Commercial Operators)--includes scheduled air taxi or commuter operations; does not include operations involving seaplanes operating on the water or helicopters.

This study does not include accidents/incidents involving air carriers on nonrevenue flights such as a repositioning or ferry flight operated under FAR Part 91 (General Operating and Flight Rules).

To the extent data was available, the location of the aircraft relative to the runway was extracted from the docket for each of these accidents/incidents. Observations on the data for the various categories of accidents/incidents were also made; however, as noted above, no attempt was made to reach conclusions or make recommendations regarding the data.

¹ The dockets used in this study were reviewed during the last six months of 1988. There were investigations for accidents/incidents occurring in 1987 that had not been completed when this review was under way. These accidents/incidents are not included in this study.

SECTION 2

APPROACH

Data Sources

The National Transportation Safety Board (NTSB) is an independent agency of the Federal Government. It is responsible for investigating, or causing to be investigated, and determining the probable cause of transportation accidents, including those involving civil aviation, that occur in the United States and its territories.

Any civil aviation accident occurring in the United States should have a docket. This is the NTSB's official record of the investigation, and includes all the information gathered on the accident.

Under its charge to conduct special investigations and special studies, the NTSB may also choose to investigate aviation incidents. The NTSB dockets for incidents are usually limited to those in which the NTSB has participated in the investigation.

Several incidents relevant to this study were not included in the NTSB dockets, but were reflected in the FAA's Accident/Incident Data System. These records usually do not provide specific information on aircraft location. For most of these incidents, it is probably fair to assume that the aircraft touched down or came to rest in the immediate vicinity of the runway. Because of the lack of specific location information, no attempt was made to include these incidents in this study.

One should be aware of certain limitations when using the docket information on aircraft location. For example, the distances given are often to a single point, such as the landing gear, the nose, the tail, or any other portion of the aircraft. In some dockets, this point is specifically identified, while in others it is not. Also, the docket usually gives no indication of how the distance was obtained; it may have been measured with a tape, paced off, or estimated by the investigative team. Consequently, there is a certain amount of error inherent in the data. Nevertheless, despite these limitations, the information contained in these dockets is considered the best available.

Methodology

The NTSB docket for each applicable accident/incident was reviewed for the purpose of categorizing the accident/incident and determining whether the docket contained information on the aircraft's location relative to the runway. Appendix 1 provides a detailed explanation of the methodology used to identify the applicable accidents/incidents and to determine the aircraft's location.

For the latter purpose, the distance along the centerline or extended centerline was recorded as the X distance. The perpendicular distance by which the aircraft was offset from the centerline (or extended centerline) was recorded as the Y distance. For the Y distance, it was also noted whether the aircraft was left or right of the centerline based on the direction of the aircraft's operation. When information on the X or Y distance could not be found, the distance was recorded as unknown. Figure 1 depicts how the X and Y distances were measured for each category.

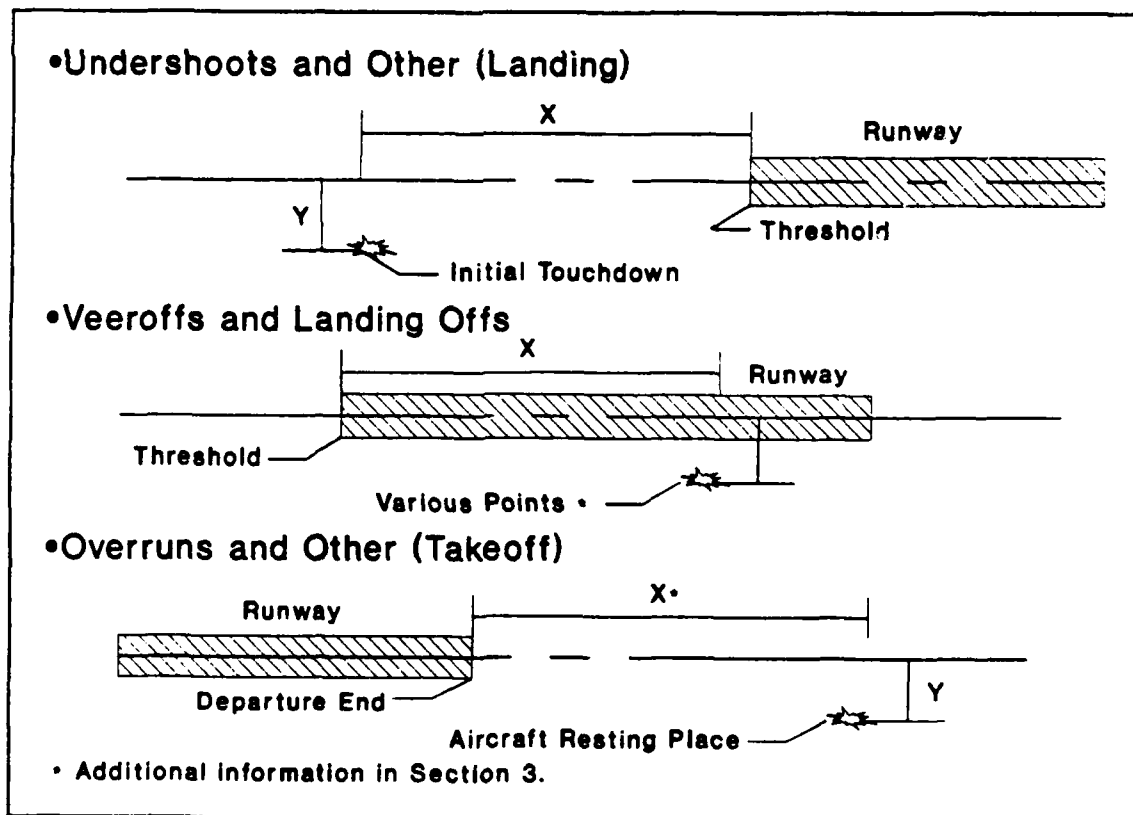


Figure 1. X and Y Distance Measurements for Each Category

In addition to the aircraft's location relative to the runway, information in such areas as the operation, the airport, the runway, and the aircraft type was retrieved directly from the NTSB computer for each accident/incident.

Definitions

Each applicable accident/incident was categorized as follows:²

- Undershoot--During landing, the aircraft touches down prior to the runway, usually due to the loss, lack, or misinterpretation of visual cues. For the purposes of this study, an undershoot is a touchdown in the approach area within 2000 feet of the runway threshold.
- Landing off--During landing, any part of the aircraft's landing gear touches down off the runway after the aircraft has passed the runway threshold.
- Veeroff--During landing rollout or takeoff roll, the aircraft runs off the side of the runway.
- Overrun--During landing rollout or takeoff roll, the aircraft runs off the end of the runway. Aircraft that run off the side of the runway but come to rest beyond the departure end of the runway have also been included in this category.
- Other--During landing, the aircraft impacts the ground more than 2000 feet from the runway threshold. During takeoff, the aircraft becomes airborne, but then impacts the ground prior to making the first airborne power reduction or reaching Visual Flight Rules (VFR) pattern altitude.

² Although these terms are commonly heard in the aviation industry, the NTSB does not currently use them to categorize accidents/incidents. The definitions provided reflect the way these terms are used in this report.

SECTION 3

AIRCRAFT LOCATIONS

This section presents information for the accidents/incidents categorized as undershoots, landing offs, veerofts, overruns, and other. For each category, information is provided on the number of accidents/incidents, the types of operators, the locations of the aircraft relative to the runway, and any observations regarding the data. Note that the X and Y distances are given in feet.

For many of the accidents/incidents, one or more of the data elements were unknown or not reported. Unless otherwise stated, any percentages, ratios, and the like cited for a particular parameter in the discussion of the aircraft locations in each category are based on the accidents/incidents where the applicable data were known.

A complete listing of all the accidents/incidents included in this study is contained in Appendix 2. Additional appendices list the accidents/incidents contained in each category. Some introductory information on the data, abbreviations, and notations that appear in the appendices is provided at the beginning of Appendix 2.

Undershoots

There were 18 accidents/incidents categorized as undershoots. Of these, 11 involved Part 135 operators, and the remainder Part 121 operators. A listing of these accidents/incidents is contained in Appendix 3.

Figure 2 provides a bar graph of the X distance distribution in 200 foot increments. As can be seen from this graph, all of these accidents/incidents occurred within 1600 feet of the threshold, with 15 (83 percent) occurring within 1000 feet. All 7 of the undershoots involving Part 121 aircraft occurred within 600 feet of the threshold.

Since an aircraft involved in an undershoot is in the final stages of approach, little deviation from the extended runway centerline (Y distance) would be expected. The data bears this out: the initial touchdown point for aircraft involved in 13 of the accidents/incidents in this category was within the extended edges of the runway.

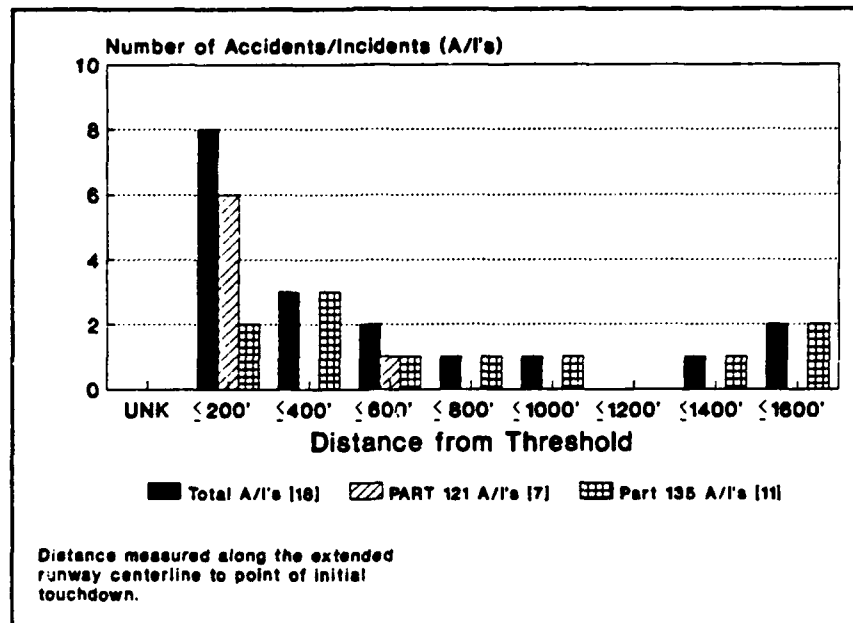


Figure 2. Undershoots: Distance from the Threshold

Of the remaining 5 undershoots, 1 was located approximately 25 feet from the extended runway edge, while 3 had variations ranging from 228 feet to 480 feet from the extended runway centerline. These 3 included an aircraft that encountered wake turbulence from another aircraft, one that experienced icing during an instrument approach, and one that ran out of fuel. The Y distance could not be determined for the fifth undershoot.

Figure 3 provides a plot relative to the runway of the undershoots that had both a known X and Y distance.

Part 135 operators were involved in all of the undershoots where the aircraft touchdown was more than 600 feet from the runway threshold (X distance) and/or outside the extended runway edges. One possible explanation of these statistics is that Part 135 aircraft operate at many airports lacking navigational aids such as visual glide path indicators or instrument landing systems.

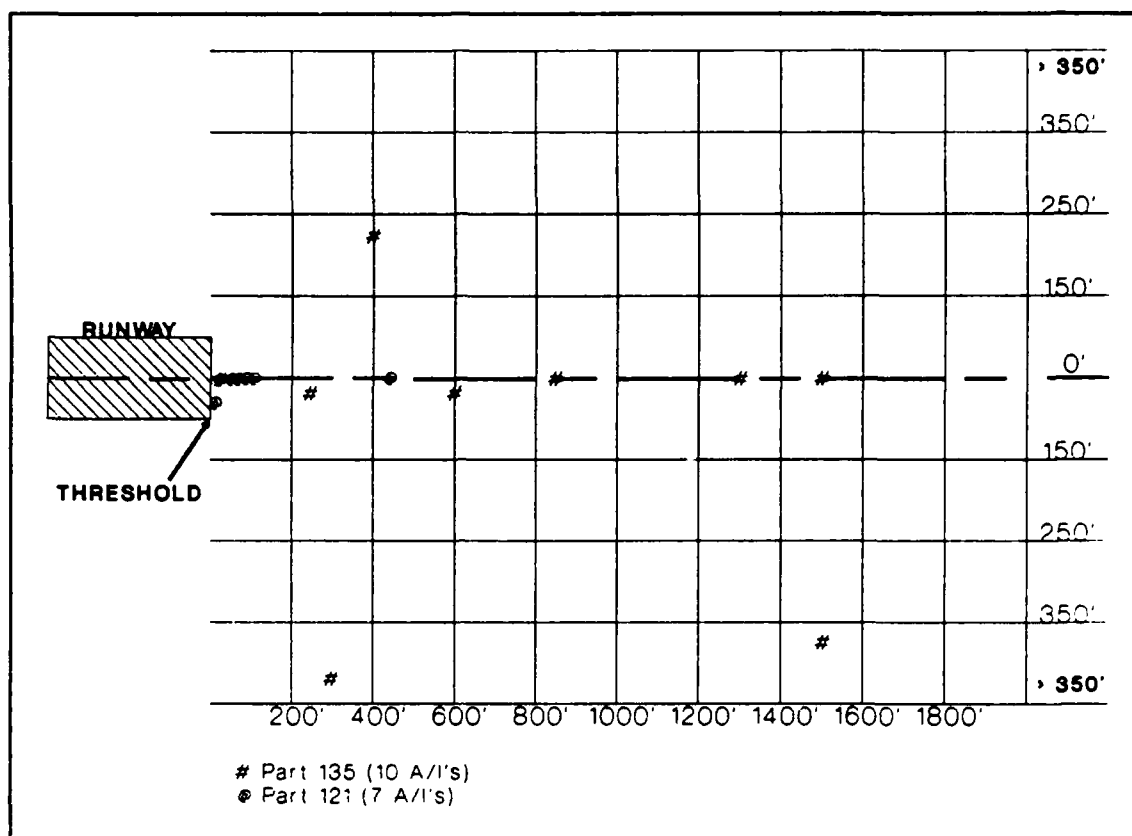


Figure 3. Undershoot Locations

The 11 Part 135 undershoots were examined further to see whether improved vertical guidance might have prevented them. The remarks section in Appendix 3 provides information on weather conditions, availability of vertical guidance, causal factors, and the author's judgment based on review of the NTSB records as to whether this might have been the case. This information is summarized below.

Part 135 undershoots in Visual Meteorological Conditions. Visual glide path indicators were not available for 6 of the 8 undershoots that occurred during Visual Meteorological Conditions. A visual glide path indicator might have helped prevent 4 of these 6.

Of these 4 undershoots, 2 involved aircraft encountering wake turbulence on approaches to large hub airports. A visual glide path indicator might have assisted the pilots to fly

above the flight path of the larger aircraft and thereby avoid the wake turbulence. The third of these undershoots involved a pilot misjudging distance, speed, and altitude on his approach to the runway, while the fourth involved a pilot who encountered wind shear. A visual glide path indicator might have alerted these two pilots that they were below the proper glide path, thereby allowing them to take corrective action. The investigators for the accident involving wind shear noted that it would be difficult to install a visual glide path indicator because of the curved approach through a mountain pass.

The 2 accidents/incidents where a visual glide path indicator would not have made a difference include an aircraft that ran out of fuel and an aircraft with a center of gravity substantially aft of its authorized limit.

Part 135 undershoots in Instrument Meteorological Conditions. Of the Part 135 undershoots, 3 occurred in Instrument Meteorological Conditions. Of these, 1 involved an aircraft that encountered wind shear while on an Instrument Landing System (ILS) approach. The remaining 2 involved aircraft icing; 1 was on a VOR approach while the other was on a VFR flight plan to an airport that had neither a VASI nor runway lights. It is doubtful that additional vertical guidance would have prevented any of these accidents.

Landing Offs

There were 11 accidents/incidents categorized as landing off the runway. Of these, 6 involved Part 135 operators, and the remainder Part 121 operators. A listing of these accidents/incidents is contained in Appendix 4.

The difference between an accident/incident categorized as an undershoot and one categorized as a landing off is that in the latter, the aircraft has passed the threshold when it touches down. The aircraft's landing gear may touch down entirely or partially off the runway.

Initially, an attempt was made to measure both the X and Y distances to the aircraft's stopping point for these accidents/incidents. In 2 of the cases, the aircraft did not stop, but became airborne again and proceeded to another airport. In another case, the aircraft was able to enter

and stop on the runway. In other cases, information was available only on the aircraft's initial touchdown point. Because of this variation, the remarks for each accident/incident entry in Appendix 4 specify the points to which these distances were measured.

The 5 Part 121 accident/incidents in this category all occurred during Instrument Meteorological Conditions. Although the NTSB determined various probable causes, they could be grouped generically under the term "pilot error."

In contrast, only 1 of the 6 Part 135 accidents/incidents occurred in Instrument Meteorological Conditions. It was also caused by "pilot error," as were 2 of the accidents/incidents that occurred during Visual Meteorological Conditions. The remaining 3 were attributed to mechanical difficulties.

Veeroffs

There were 97 veeroffs. Part 121 operators were involved in 38 of these accidents/incidents, while Part 135 operators were involved in the remaining 59. The veeroff category does not include accidents/incidents where the aircraft veered off the side of the runway but came to rest beyond the departure end of the runway; these accidents/incidents were categorized as overruns. A listing of veeroff accidents and incidents is contained in Appendix 5.

Although veeroffs may occur during landing or takeoff, they are more prevalent during landing. Table 1 shows how the veeroffs were divided between landing and takeoff for Part 121 and 135 operators.

Table 1. Veeroffs by Phase of Operation
and Operator Type

| TYPE OF OPERATOR | PHASE OF OPERATION | | |
|---------------------|--------------------|---------|-------|
| | Landing | Takeoff | Total |
| Part 121 | 35 | 3 | 38 |
| Part 135 | 39 | 20 | 59 |
| Total | 74 | 23 | 97 |

For veerooffs, the point to which the X distance was measured varied based on the information available in the docket. For this reason, letter prefixes of A, B, and C have been used to code the X distance data. These letters indicate the following:

A - distance to the point where the aircraft left the runway

B - distance to the point where the aircraft came to rest off the runway

C - distance to the point where the aircraft reentered the runway

In some cases, the docket provided information on both the point at which the aircraft departed the runway and that at which it came to rest or reentered the runway. When more than one of these distances was available, both were recorded. However, for many of the veerooffs, information on only one of these points was available. An X distance could not be found for 32 of the veerooffs. Figure 4 shows the distribution of

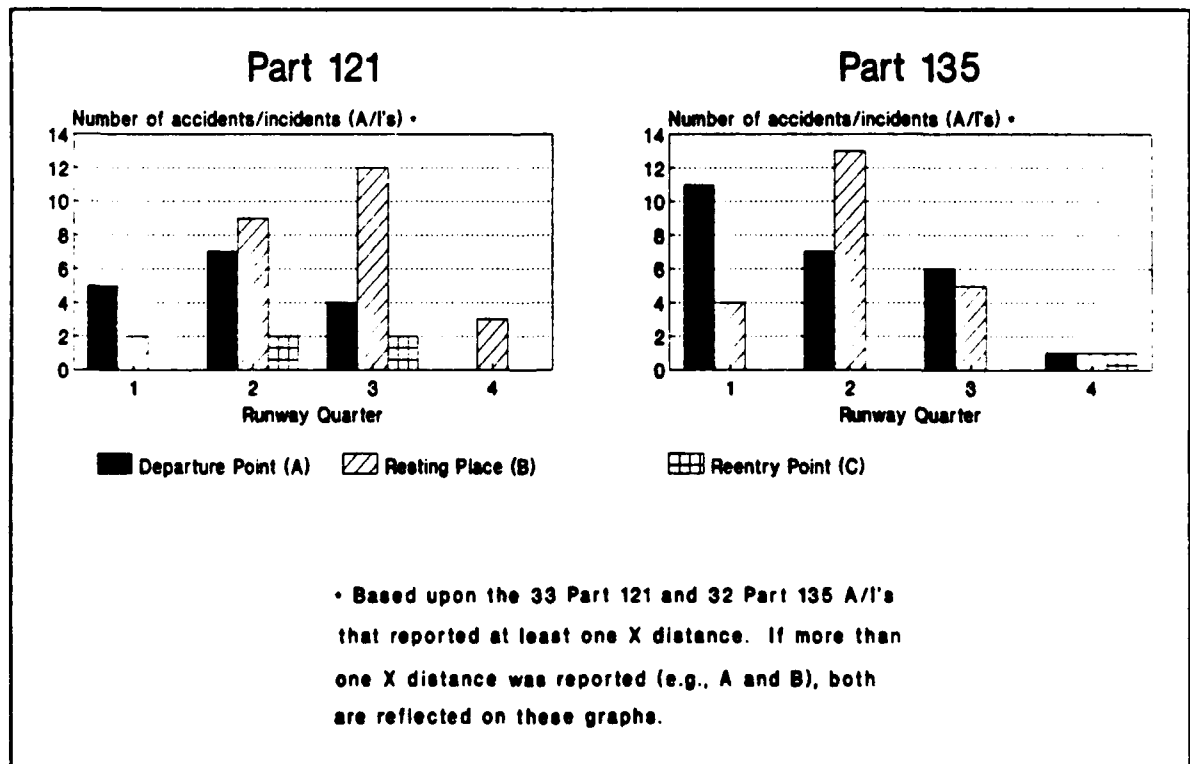


Figure 4. Veerooffs by Quarter of the Runway

the X distance by quarter of the runway for Part 121 and Part 135 accidents/incidents that had recorded X values.

Since the information recorded in the dockets for the Y distance also varied, a letter prefix of D or E was used to code each entry in the following manner:

D - distance from the centerline to the point where the aircraft came to rest off the runway

E - distance from the centerline to the farthest point to which the aircraft traveled from the centerline (This distance was usually provided when the aircraft reentered the runway.)

An R or L prefix is also used with each entry to indicate whether the aircraft veered off the right or left side of the runway, as determined by the direction of the operation.

For 41 of the veerooffs, a Y distance could not be found. Figure 5 shows the distribution of the known Y distances. As can be seen from this figure, 63 percent of the aircraft stayed within 150 feet of the runway centerline, and 88 percent of them remained within 250 feet.

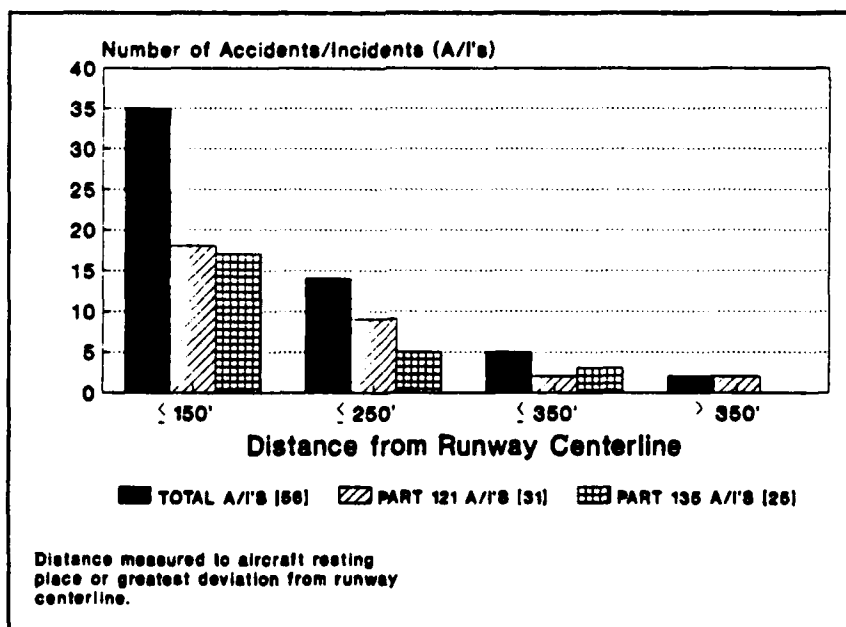


Figure 5. Veerooffs: Distance from Runway Centerline

Table 2. Veerooffs by Status of Runway Surface and Type of Operator

| TYPE OF OPERATOR | RUNWAY SURFACE STATUS | | | | Total |
|------------------|-----------------------|-----|-----|-------|-------|
| | Not Reptd. | Dry | Wet | Snow* | |
| Part 121 | 6 | 10 | 12 | 10 | 38 |
| Part 135 | 9 | 28 | 6 | 16 | 59 |
| Total | 16 | 38 | 18 | 25 | 97 |

*Includes ice and slush.

Table 2 shows the status of the runway surface (e.g., dry, wet, snow-covered) for the veerooff accidents/incidents. One might suspect that veerooffs would be more likely to occur when the runway surface was not dry. As can be seen from Table 2, this was true for Part 121 operations, for which veerooffs on wet, snow-covered, icy, or slush-covered runways exceeded those on dry runways by almost a 2:1 ratio. In contrast, the majority of veerooffs involving Part 135 operations occurred on dry runways.

The veerooffs on dry runways were further reviewed. It was found that 6 of the 10 Part 121 veerooffs and 17 of the 28 Part 135 veerooffs that occurred on dry runways involved problems with the landing gear. These problems included, for example, the gear collapsing, failure of the gear to extend fully, and failure of the crew to lower the gear.

Another theory is that veerooffs are more likely to occur on narrow runways. The width of the runways involved in each of the veerooffs was determined for 94 of the 97

Table 3. Veerooffs by Runway Width and Operator Type

| TYPE OF OPERATOR | Not Reptd. | RUNWAY WIDTH | | |
|------------------|------------|--------------|-------|-------|
| | | <150' | =150' | >150' |
| Part 121 | 2 | 7 | 23 | 6 |
| Part 135 | 1 | 20 | 30 | 8 |
| Total | 3 | 27 | 53 | 14 |

accidents/incidents in this category.³ As can be seen from Table 3, over 70 per cent of the veerooffs occurred on runways that were at least 150 feet wide. However, 3 of the veerooffs (2 Part 121 and 1 Part 135 operations) occurred during a seven-month period at one airport on the same 75 foot wide runway. This runway was subsequently widened to 150 feet.

The effect of runway surface treatments, such as grooving and porous friction courses, could not be determined because of the lack of reported data. Surface treatments were reported for only 17 of the veerooffs.

Overruns

There were 33 accidents/incidents categorized as overruns. Part 121 operators were involved in 20 of these accidents/incidents, while Part 135 operators were involved in 10. The remaining 3 overruns involved Part 129 operators. For purposes of this discussion, the overruns involving Part 121 and 129 operators are grouped together. A listing of the overruns is contained in Appendix 6.

Overruns may occur during landing or takeoff. Like veerooffs, overruns were found to be more prevalent during landing by a 2:1 ratio. Table 4 shows how the overruns were divided between landing and takeoff for Part 121/129 and Part 135 operators.

Table 4. Overruns by Phase of Operation and Operator Type

| TYPE OF OPERATOR | PHASE OF OPERATION | | |
|------------------|--------------------|---------|-------|
| | Landing | Takeoff | Total |
| Part 121/129 | 15 | 8 | 23 |
| Part 135 | 7 | 3 | 10 |
| Total | 22 | 11 | 33 |

³Starting in 1982, the NTSB included information on runway width in its computer-retrievable database on accidents and incidents. For veerooffs that occurred prior to 1982, information on runway width was obtained from the narrative portion of the docket. Whenever this information was not available in the docket, it was obtained from the history file for FAA Form 5010, Airport Master Record, for the airport where the accident occurred.

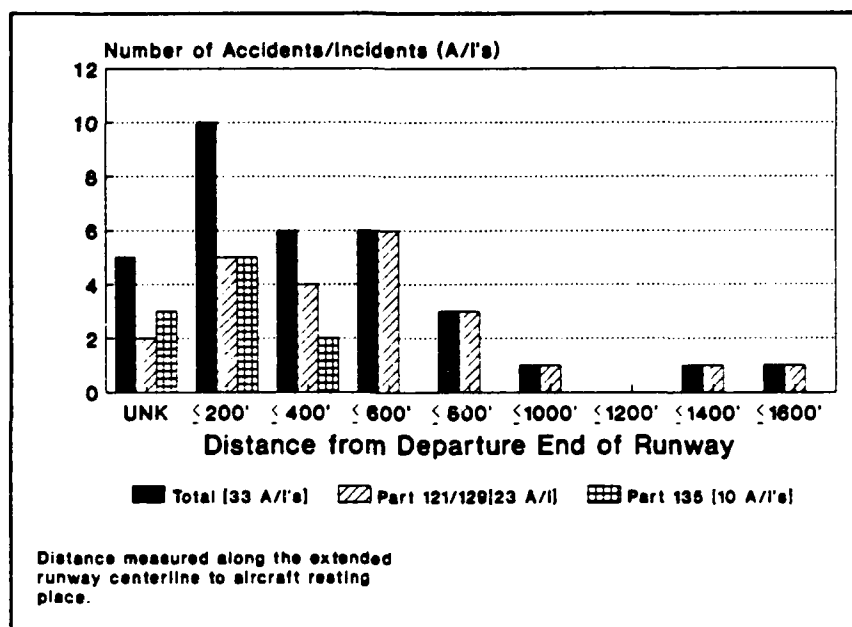


Figure 6. Overruns: Distance from the Departure End

An X distance could not be found for 5 of the overruns. Figure 6 shows a distribution of the X distance for overruns for which this data was available. As can be seen from the figure, all the aircraft involved in these overruns came to rest within 1600 feet of the runway end, with 93 per cent of them stopping within 1000 feet. Of the overruns where the aircraft traveled beyond 1000 feet, 1 involved a DC-10 crew that became disoriented during low-visibility conditions and began their takeoff with 2400 feet of runway remaining.

The X distance was reported for 7 of the overruns involving Part 135 operations. For these accidents/incidents, all the aircraft came to rest within 400 feet of the runway end, with 5 of them stopping within 200 feet.

A Y distance could not be determined for 11 of the overruns. Figure 7 shows a distribution of the Y distances for overruns for which this data was available. As can be seen from the figure, 95 per cent of the aircraft involved in these overruns stopped within 250 feet of the extended runway centerline. A comparison of the runway width and the Y distance reveals that 64 per cent of the overruns remained within the extended edges of the runway.

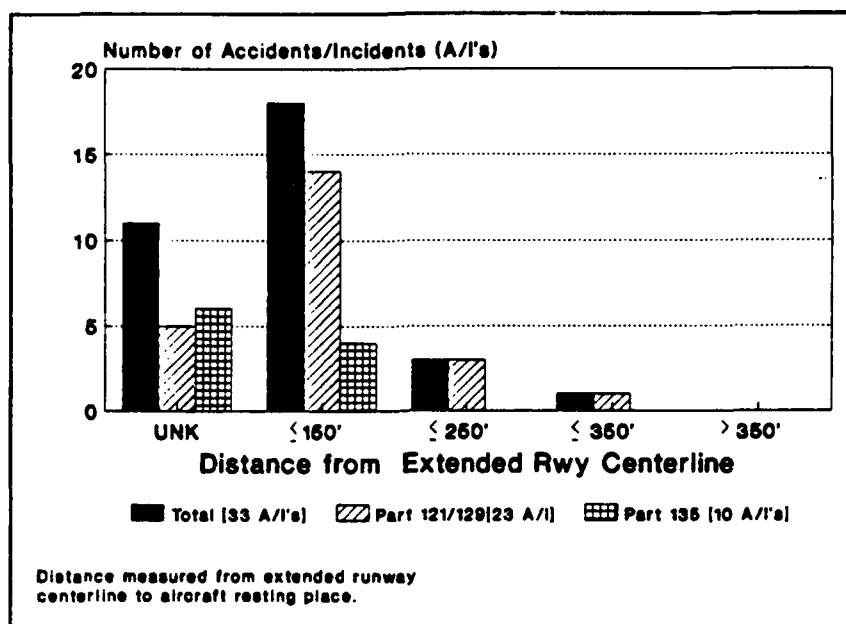


Figure 7. Overruns: Distance from the Extended Runway Centerline

Figure 8 provides a plot in relation to the runway of overruns for which both X and Y distances are known.

Overruns were more likely to occur when the runway was not dry. For the 30 overrun accidents/incidents for which the status of the runway was reported, 23 involved wet, snow-covered, or icy runways. The status of the runway surface was more of a factor in the overruns during landing than during takeoff. For the landing overruns, 17 of the 19 accidents/incidents occurred on wet, snow-covered, or icy runways. In contrast, these conditions were involved in 5 of the 11 takeoff overruns.

The effect of runway surface treatments, such as grooving and porous friction courses, could not be determined because of the lack of data. Surface treatments were reported for only 8 of the overruns.

Other

There were 87 accidents/incidents categorized as other. Part 121 operators and Part 135 operators were involved in 22 and 65 of these, respectively. Appendix 7 provides a listing of the accidents and incidents in this category.

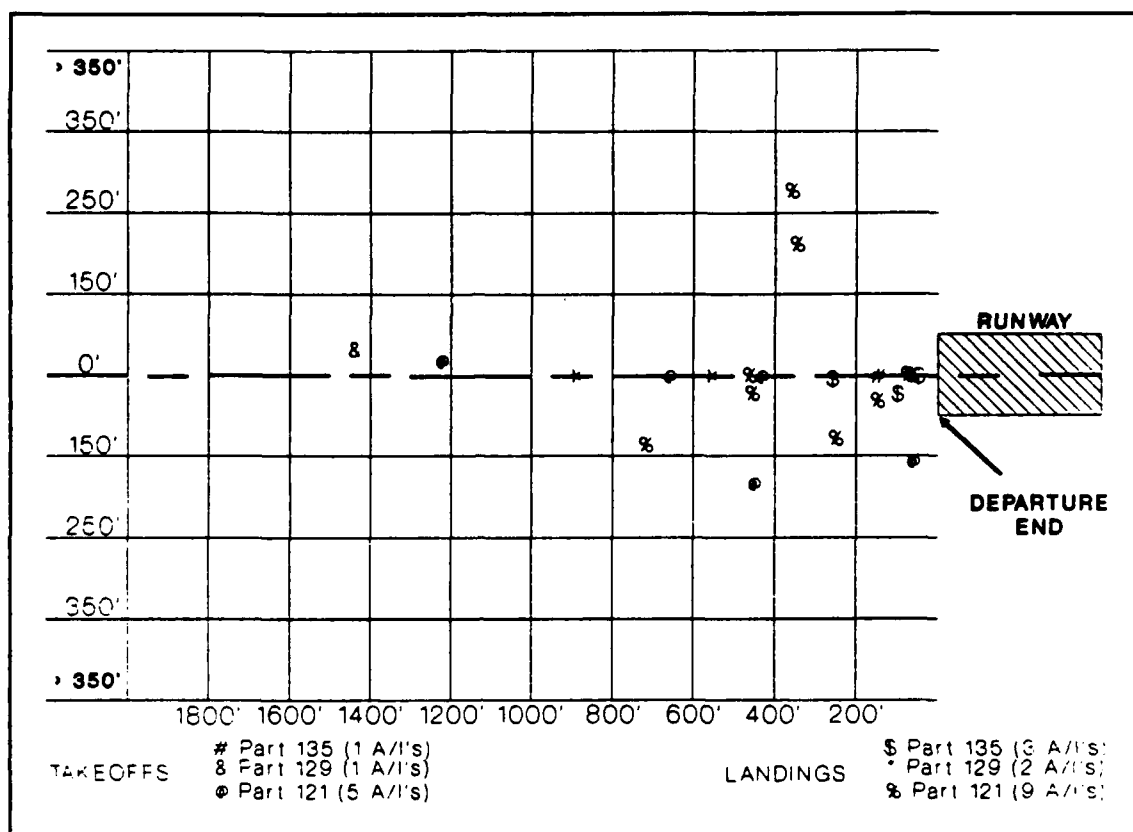


Figure 8. Overrun Locations

The accidents/incidents categorized as other occurred during landing or takeoff. Table 5 provides a breakdown of this category by phase of operation and operator type. Those accidents/incidents in this category involving go-arounds were listed as takeoff or landing based on whether they were departing or approaching the airport.

Table 5. Other Accidents/Incidents by Phase of Operation and Operator Type

| TYPE OF OPERATOR | PHASE OF OPERATION | | |
|------------------|--------------------|---------|-------|
| | Landing | Takeoff | Total |
| Part 121 | 7 | 15 | 22 |
| Part 135 | 30 | 35 | 65 |
| Total | 37 | 50 | 87 |

involving takeoff are plotted in Figure 10. Only the accidents/incidents for which both X and Y distances are known are plotted in these figures. Accidents/incidents involving takeoffs that did not pass the departure end of the runway are also not plotted. As can be seen from the figures, there is a wide disparity in aircraft accident/incident locations for this category.

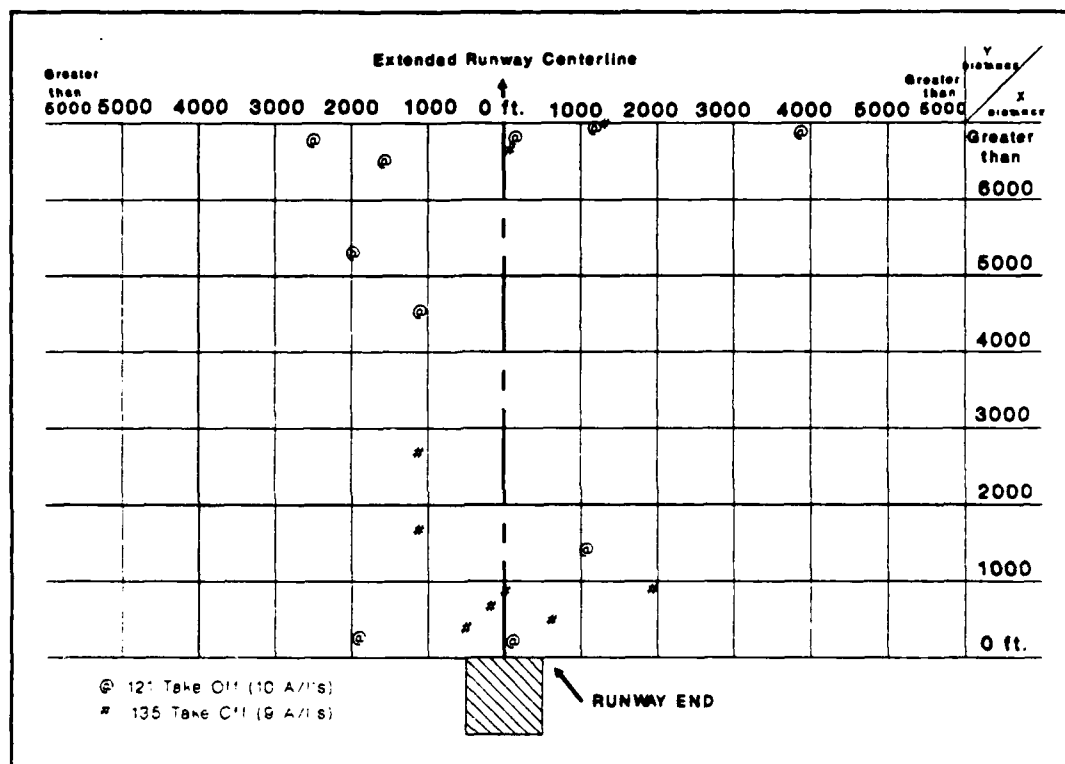


Figure 10. Other Accidents/Incidents: Takeoffs in the Vicinity of the Airport

SECTION 4

CONCLUSION

This report has presented information on the location relative to the runway of aircraft involved in accidents/incidents in the vicinity of the airport. While detailed analysis of this information, as well as conclusions and recommendations, is beyond the scope of this report, it is hoped that the information presented will prove useful to airport engineers, airport operators, government officials, and others involved in ensuring the safety and efficiency of airport design and operations.

APPENDIX 1

METHODOLOGY

Identifying the Applicable Accidents/Incidents

The NTSB aviation dockets contain information on all types of accidents and incidents. To focus on the dockets that would be of interest in this effort, a computer printout was obtained from the NTSB for any accident/incident that occurred during approach, landing, or takeoff and involved operations conducted under Part 121, 129, or 135 (scheduled) of the Federal Aviation Regulations.

As used in the NTSB dockets, the terms approach, landing, and takeoff have the following meanings:

- Approach--From the time the descent ends (either Initial Approach Fix, Final Approach Fix, Outer Marker, or Visual Flight Rules pattern entry) until the aircraft reaches the Missed Approach Point (Instrument Meteorological Conditions [IMC]) or the runway threshold (Visual Meteorological Conditions [VMC]). Includes missed approach and go-around (VMC).
- Landing--From either the Missed Approach Point (IMC) or the runway threshold (VMC) through touchdown or after touchdown off the airport, until the aircraft completes its ground run.
- Takeoff--From the time the power is applied for takeoff, up to and including the first airborne power reduction, or until reaching VFR traffic pattern altitude, whichever occurs first. Includes ground run and initial climb.

A brief on each of the accidents/incidents meeting these criteria was provided on the printout. As the name implies, the brief contains some limited information about the occurrence, along with a short narrative description.

Some of the approach, landing, and takeoff accidents/incidents were eliminated from further consideration based on the brief information. These events were incidents in which something occurred in the approach, landing, or takeoff phase of flight, but did not result in the aircraft's touching down off the runway or leaving the runway in other than a normal manner. Typically, the briefs for these incidents provide an explanation of the incident, coupled with a phrase such as "landed without further incident" or "continued flight without further incident."

For each remaining accident/incident listed on the printout, the NTSB docket was reviewed. Each accident/incident was categorized as an undershoot, landing off, veeroff, overrun, other, runway, or not applicable. The definitions for the first five categories appear in the body of this report. The last two categories are defined as follows:

- Runway--During landing rollout or takeoff roll, the aircraft becomes physically disabled on the runway or is evacuated on the runway.
- Not Applicable--Any other accident/incident included on the printout that could not be placed in one of the above categories. These comprise the same types of occurrences that were eliminated when the briefs were reviewed; the information on the brief was not enough to eliminate the accident/incident from further consideration at that time.

Accidents/incidents categorized as runway or not applicable were eliminated from further consideration. For the remaining categories, each docket was reviewed to determine whether it contained information on the location of the aircraft relative to the runway.

Determining the Aircraft Location

The docket is the official record of all information that the NTSB has on a particular accident/incident. The information contained in the docket is gathered during the investigation. Under the current system,⁴ much of this information is documented on the Factual Report Aviation (NTSB Form 6120.4) so that it can be easily retrieved with a computer. Supplement Q of this form provides information on the aircraft location relative to the runway.

The information contained in the applicable data elements of Supplement Q was reviewed for this study. The form of the data (distance from runway and bearing) is difficult to use for a comparative analysis. Moreover, this information was often found to be missing, incomplete, or in conflict with

⁴ For the period covered by this study, the NTSB used three different computer systems to store information on accidents/incidents. The first system was used through 1981, the second one was used only in 1982, and the third has been in effect since 1983.

other information in the file. There are similar problems with the data on aircraft location stored in the NTSB computer systems that were in effect from 1978 through 1982.

Although it is not computer-retrievable, the narrative portion of the Factual Report or the reports of the various subgroups formed by the NTSB for an investigation often contain specific information on aircraft location. When the information is not in a narrative statement, there may be a scaled drawing or a rough sketch that allows the location to be measured or calculated. However, in some cases, there is just not enough information in the file to determine the location.

The aircraft's location was recorded in terms of the distance along the runway centerline or extended centerline, and the perpendicular distance from the runway centerline or extended centerline. The former distance was referred to as the X distance, and the latter as the Y distance.

In some cases, the X and Y distances were specifically stated in the docket. In other cases, it was possible to calculate or measure these distances based on the docket information. Sometimes, persons who participated in the investigation were called to see whether they could remember any additional details that could be used in conjunction with the docket information to determine the X and Y distances. The Y distance was also recorded as the distance left or right of centerline, based on the direction of the aircraft's operation. When this information could not be found, the distance was recorded as unknown.

In lieu of specific information on the offset distance from the centerline, the dockets would sometimes contain statements such as "aircraft came to rest in grass along right edge of runway" or "aircraft veered off centerline to avoid approach lights at end of the runway." For purposes of this analysis, this type of information was converted into numerical values. The following rules were used for this conversion:

- For any Part 121/129 aircraft located along the edge of the runway, the offset distance was calculated as $Y = 1/2$ runway width plus width of aircraft landing gear.
- For any Part 135 aircraft located along the edge of the runway, the offset distance was calculated as $Y = 1/2$ runway width plus 10 feet.
- For aircraft that remained within the area formed by the extended edges of the runway, an offset distance of zero was used unless specific information was provided.

- For aircraft located between the runway and parallel taxiway, the offset distance was calculated as $Y = 1/2$ the distance between the runway and taxiway centerline.

Using these rules to assign numerical values to the Y distance may appear to be somewhat arbitrary. However, for purposes of this analysis, this approach was not expected to impact the accuracy of the data since the information was grouped in ranges rather than used as individual data points.

APPENDIX 2

CHRONOLOGICAL LISTING OF ACCIDENTS/INCIDENTS

This appendix provides a chronological listing of all the accidents/incidents included in this study. Except as discussed below, the information for each accident/incident was derived directly from the NTSB computer system. The information recorded for accidents/incidents under each of the three computer systems used by the NTSB during the period under study differs somewhat. Consequently, the information presented for each accident/incident in this and subsequent appendices does not necessarily contain all the elements. The absence of an entry for an element means that this information was not available from the computer system.

The data entries for the category, phase, X distance, and Y distance are based on information obtained from the review of the NTSB dockets. As previously explained, the runway identification and width information was entered for the veerooffs that occurred prior to 1982.

Some of the abbreviations and notations used in this and subsequent appendices need to be explained. Under the state entry, the abbreviations are not limited to the 50 states, but also include territories, as well as two foreign countries. The following abbreviations are used for the entities that are not states:

- AS - American Samoa
- BA - Bahamas
- GQ - Guam
- PM - Panama
- PR - Puerto Rico
- TQ - Trust Territories of the Pacific Islands
- VI - Virgin Islands

A double asterisk appears after the city name for three of the accidents/incidents. This notation is used to indicate that the NTSB docket for these accidents/incidents is not listed under these cities.

The listings notated in this manner for Los Angeles, California and Pocatello, Idaho are found under Ontario, California and Salt Lake City, Utah, respectively, in the NTSB dockets. Although the overrun and veerooff occurred at the locations cited in the appendix, the actual event that caused the accident/incident occurred while the aircraft were on

approach to the airports for the cities listed in the NTSB docket. The information appearing in the appendix for these two accidents/incidents was taken from the docket and FAA airport master records.

The third double asterisk notation is for an incident listed under Washington, D.C. This incident was included as part of the NTSB's special investigation on runway incursions. Separate dockets were not established for the incidents included in the special investigation. The information in the appendix for this incident was taken from the NTSB's report on runway incursions and FAA airport master records.

Following this appendix are appendices listing accidents/incidents by each category--undershoots, landing offs, veeroffs, overruns, and other.

Appendix 2. CHRONOLOGICAL LISTING OF ACCIDENTS/INCIDENTS

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| | | | | |
|----------|--|---|---|---|
| 01/05/78 | LEADVILLE, CO Rwy ID: 34 Lgth: 4800 Surface Type: MACADAM Category: VEER | Arprt Name: LAKE COUNTY () Wid: 75 Rwy Status: DRY Phase: LND | Owner Name: Operator Name/DBA: ROCKY MT. MYS Rwy Surface Character: XDistance: A3500 | Acft Mfr: DEHAVND CA/DHC-6 FAR Part: 135 YDistance: D L 120 |
| 01/17/78 | CLARKSBURG, WV Rwy ID: 3 Lgth: 5200 Surface Type: MACADAM Category: VEER | Arprt Name: BENEDUM () Wid: 150 Rwy Status: SLUSH COVERED Phase: T/O | Owner Name: Operator Name/DBA: AERO MECH INC Rwy Surface Character: XDistance: B1800 | Acft Mfr: BEECH/B99A FAR Part: 135 YDistance: UNK |
| 01/17/78 | NEW CASTLE, DE Rwy ID: Lgth: 7000 Surface Type: MACADAM Category: OTHER | Arprt Name: GREATER WILMINGT () Wid: Rwy Status: ICE COVERED Phase: LND | Owner Name: Operator Name/DBA: FLT EXPRES CA Rwy Surface Character: XDistance: *1M | Acft Mfr: BEECH/C45H FAR Part: 135 YDistance: |
| 02/10/78 | RICHLAND, VA Rwy ID: Lgth: 4000 Surface Type: MACADAM Category: OTHER | Arprt Name: RICHLAND () Wid: Rwy Status: Phase: T/O | Owner Name: Operator Name/DBA: COLUMBIA PACI Rwy Surface Character: XDistance: 1669 | Acft Mfr: BEECH/99 FAR Part: 135 YDistance: L1031 |
| 02/13/78 | VICHY, MO Rwy ID: 22 Lgth: 5500 Surface Type: MACADAM Category: VEER | Arprt Name: ROLA NATIONAL () Wid: 150 Rwy Status: SNOW Phase: LND | Owner Name: Operator Name/DBA: DICKMAN AVIAT Rwy Surface Character: XDistance: A1450 B1790 | Acft Mfr: CESSNA/402 FAR Part: 135 YDistance: D L 85 |
| 02/16/78 | HOOPER BAY, AK Rwy ID: 31 Lgth: 4000 Surface Type: TWO OR MORE Category: VEER | Arprt Name: HOOPER BAY () Wid: 100 Rwy Status: SNOW-CRUSTED Phase: LND | Owner Name: Operator Name/DBA: BUSH AIR, INC Rwy Surface Character: XDistance: B1200 | Acft Mfr: CESSNA/401B FAR Part: 135 YDistance: D L 60 |
| 02/16/78 | CHICAGO, IL Rwy ID: 36 Lgth: 5341 Surface Type: CONCRETE Category: VEER | Arprt Name: O'HARE INTL () Wid: 150 Rwy Status: ICE COVERED Phase: T/O | Owner Name: Operator Name/DBA: AIR WISCONSIN Rwy Surface Character: XDistance: B2300 | Acft Mfr: SHEARINGEN/SA226 FAR Part: 135 YDistance: D R 60 |
| 02/17/78 | MIDDLETOWN, PA Rwy ID: 31 Lgth: 9501 Surface Type: MACADAM Category: VEER | Arprt Name: HARRISBURG INTL () Wid: 200 Rwy Status: Phase: LND | Owner Name: Operator Name/DBA: FLIGHT EXPRES Rwy Surface Character: XDistance: A2175 B2509 | Acft Mfr: BEECH/E18S FAR Part: 135 YDistance: n L 170 |
| 03/01/78 | LOS ANGELES, CA Rwy ID: Lgth: 10285 Surface Type: TWO OR MORE Category: OVER | Arprt Name: LOS ANGELES INTL () Wid: Rwy Status: WET Phase: T/O | Owner Name: Operator Name/DBA: CONTINENTAL AIRLINES Rwy Surface Character: XDistance: 654 | Acft Mfr: DOUGLAS/DC-10 FAR Part: 121 YDistance: 0 |
| 03/01/78 | AGAWA, GO Rwy ID: Lgth: 10000 Surface Type: MACADAM Category: OTHER | Arprt Name: GUAM INTL () Wid: Rwy Status: DRY Phase: T/O | Owner Name: Operator Name/DBA: ISLAND AIR, IN Rwy Surface Character: XDistance: *.67NM | Acft Mfr: CESSNA/337F FAR Part: 135 YDistance: |

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| | | | |
|---|---|--|--|
| 04/20/78 CLEVELAND, OH Rwy ID: 28 R Lgth: 6015 Surface Type: CONCRETE Category: VEER | Arprt Name: HOPKINS INTL () Wid: 150 Rwy Status: WET Phase: LND | Owner Name: Operator Name/DBA: Rwy Surface Character: XDistance: B4105 | Acft Mfr: CONVAIR/580 FAR Part: 121 YDistance: D R 165 |
| 04/27/78 CULEBRA IS, PR Rwy ID: Lgth: 2200 Surface Type: MACADAM Category: UNDER | Arprt Name: CULEBRA () Wid: Rwy Status: DRY Phase: LND | Owner Name: Operator Name/DBA: PERKIDOMEN AIR Rwy Surface Character: XDistance: 600 | Acft Mfr: PIPER/PA-31 FAR Part: 135 YDistance: L 25 |
| 05/08/78 PENSACOLA, FL Rwy ID: Lgth: Surface Type: Category: OTHER | Arprt Name: PENSACOLA RGML () Wid: Rwy Status: Phase: LND | Owner Name: Operator Name/DBA: NATIONAL AIRLINES Rwy Surface Character: XDistance: *3.5M | Acft Mfr: BOEING/727 FAR Part: 121 YDistance: |
| 05/11/78 KEOKUK, IA Rwy ID: 13 Lgth: 3800 Surface Type: CONCRETE Category: VEER | Arprt Name: KEOKUK MUNI () Wid: 100 Rwy Status: WET Phase: T/O | Owner Name: Operator Name/DBA: BROWER AIRWAY Rwy Surface Character: XDistance: UNK | Acft Mfr: CESSNA/402B FAR Part: 135 YDistance: L UNK |
| 05/19/78 MARTINSVILLE, VA Rwy ID: Lgth: 3000 Surface Type: MACADAM Category: OVER | Arprt Name: BLUE RIDGE () Wid: Rwy Status: DRY Phase: T/O | Owner Name: Operator Name/DBA: AMERICAN AIR Rwy Surface Character: XDistance: UNK | Acft Mfr: PIPER/PA-31 FAR Part: 135 YDistance: UNK |
| 05/19/78 MOKIAI, HI Rwy ID: Lgth: 4500 Surface Type: MACADAM Category: OVER | Arprt Name: MOKIAI () Wid: Rwy Status: UNK/NR Phase: LND | Owner Name: Operator Name/DBA: ALL HAWAII AI Rwy Surface Character: XDistance: 184 | Acft Mfr: BEECH/H18 FAR Part: 135 YDistance: UNK |
| 05/23/78 SYRACUSE, NY Rwy ID: 28 Lgth: 9005 Surface Type: Category: VEER | Arprt Name: SYRACUSE-HANCOCK () Wid: 150 Rwy Status: Phase: T/O | Owner Name: Operator Name/DBA: SPRINGFIELD A Rwy Surface Character: XDistance: A5500 B6000 | Acft Mfr: BEECH/3MM FAR Part: 135 YDistance: R UNK |
| 06/19/78 WINDSOR LOCKS, CT Rwy ID: Lgth: Surface Type: Category: OTHER | Arprt Name: BRADLEY INTL () Wid: Rwy Status: Phase: LND | Owner Name: Operator Name/DBA: GREAT WESTERN Rwy Surface Character: XDistance: *2.7M NE APT | Acft Mfr: BEECH/18 FAR Part: 135 YDistance: |
| 06/23/78 ASHLAND, ME Rwy ID: Lgth: Surface Type: Category: OTHER | Arprt Name: () Wid: Rwy Status: Phase: LND | Owner Name: Operator Name/DBA: AAA AIR ENTER Rwy Surface Character: XDistance: UNK | Acft Mfr: AERO COMDR/680 FAR Part: 135 YDistance: UNK |
| 07/05/78 BEAUFORT, SC Rwy ID: Lgth: 3000 Surface Type: MACADAM Category: OVER | Arprt Name: BEAUFORT COUNTY () Wid: Rwy Status: WET Phase: LND | Owner Name: Operator Name/DBA: COSTAL PLAINS Rwy Surface Character: XDistance: 60 | Acft Mfr: PIPER/PA-32 FAR Part: 135 YDistance: UNK |

Appendix 2. CHRONOLOGICAL LISTING OF ACCIDENTS/INCIDENTS

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| | | | | |
|------------------------|-----------------|----------------------------------|---|----------------------------|
| 07/09/78 | ROCHESTER, NY | Arprt Name: MONROE COUNTY () | Owner Name: | Acft Mfr: BRITISH AC/1-11 |
| Rwy ID: 5500 | | Wid: | Operator Name/DBA: USAIR | FAR Part: 121 |
| Surface Type: MACADAM | | Rwy Status: DRY | Rwy Surface Character: | |
| Category: OVER | | Phase: LND | XDistance: 728 | YDistance: L 143 |
| 07/21/78 | OSHKOSH, WI | Arprt Name: WITTMAN FIELD () | Owner Name: | Acft Mfr: DOUGLAS/DC-9 |
| Rwy ID: 6700 | | Wid: | Operator Name/DBA: NORTH CENTRAL AIRLINES | FAR Part: 121 |
| Surface Type: CONCRETE | | Rwy Status: WET | Rwy Surface Character: | |
| Category: OVER | | Phase: LND | XDistance: 738 | YDistance: UNK |
| 07/25/78 | KALAMAZOO, MI | Arprt Name: KALAMAZOO MUNI () | Owner Name: | Acft Mfr: CONVAIR/580 |
| Rwy ID: | | Wid: | Operator Name/DBA: NORTH CENTRAL AIRLINES | FAR Part: 121 |
| Surface Type: | | Rwy Status: | Rwy Surface Character: | |
| Category: OTHER | | Phase: T/O | XDistance: *2M E APT | YDistance: |
| 08/03/78 | MANHATTAN, KS | Arprt Name: MANHATTAN MUNI (MHK) | Owner Name: | Acft Mfr: CESSNA/402A |
| Rwy ID: 5500 | | Wid: | Operator Name/DBA: CAPITOL AIR SERVICE | FAR Part: 135 |
| Surface Type: CONCRETE | | Rwy Status: DRY | Rwy Surface Character: | |
| Category: OTHER | | Phase: T/O | XDistance: UNK | YDistance: UNK |
| 08/08/78 | CHICAGO, IL | Arprt Name: O'HARE INT'L () | Owner Name: | Acft Mfr: BEECH/D18S |
| Rwy ID: 14 L | | Wid: 150 | Operator Name/DBA: BLACKHAWK AIR | FAR Part: 135 |
| Surface Type: MACADAM | | Rwy Status: DRY | Rwy Surface Character: | |
| Category: VEER | | Phase: LND | XDistance: A 860 B1266 | YDistance: L UNK |
| 08/10/78 | DOVER, DE | Arprt Name: DOVER AFB () | Owner Name: | Acft Mfr: LOCKHEED/L-382G |
| Rwy ID: | | Wid: | Operator Name/DBA: TRANS INT AIR | FAR Part: 121 |
| Surface Type: MACADAM | | Rwy Status: DRY | Rwy Surface Character: | |
| Category: VEER | | Phase: LND | XDistance: UNK | YDistance: UNK |
| 08/11/78 | KNEELAND, CA | Arprt Name: KNEELAND () | Owner Name: | Acft Mfr: PIPER/PA-31 |
| Rwy ID: 33 | | Wid: 75 | Operator Name/DBA: EUREKA AERO I | FAR Part: 135 |
| Surface Type: MACADAM | | Rwy Status: DRY | Rwy Surface Character: | |
| Category: VEER | | Phase: LND | XDistance: UNK | YDistance: R UNK |
| 08/13/78 | AUSTIN, TX | Arprt Name: ROBERT MUELLER () | Owner Name: | Acft Mfr: SWEARINGEN/SA226 |
| Rwy ID: 12 R | | Wid: 150 | Operator Name/DBA: TEJAS AIRLINE | FAR Part: 135 |
| Surface Type: MACADAM | | Rwy Status: DRY | Rwy Surface Character: | |
| Category: VEER | | Phase: LND | XDistance: A4100 B5000 | YDistance: L UNK |
| 09/02/78 | OLD HARBOR, AK | Arprt Name: OLD HARBOR () | Owner Name: | Acft Mfr: GRUMMAN/G-21A |
| Rwy ID: 18 | | Wid: 90 | Operator Name/DBA: KODIAK WESTERN ALASKA AIRLINES | FAR Part: 121 |
| Surface Type: GRAVEL | | Rwy Status: DRY | Rwy Surface Character: | |
| Category: VEEN | | Phase: T/O | XDistance: B1980 | YDistance: D L 60 |
| 09/06/78 | GREAT FALLS, MT | Arprt Name: GREAT FALLS INTL () | Owner Name: | Acft Mfr: AERO CONDOR/5008 |
| Rwy ID: | | Wid: | Operator Name/DBA: COMBS AIRWAYS | FAR Part: 135 |
| Surface Type: CONCRETE | | Rwy Status: WET | Rwy Surface Character: | |
| Category: OTHER | | Phase: LND | XDistance: 5280 | YDistance: 0 |

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| | | | | |
|----------|--|--|---|--|
| 09/07/78 | SAN ANTONIO, TX Rwy ID: Lgth: Surface Type: Category: OTHER | Arpt Name: SAN ANTONIO INTL () Wid: Rwy Status: Phase: LND | Owner Name: Operator Name/DBA: AIR CENTER IN Rwy Surface Character: XDistance: UNK | Acft Mfr: CESSNA/1820 FAR Part: 135 YDistance: UNK |
| 09/19/78 | BLOOMTIVILLE, TN Rwy ID: Lgth: 6599 Surface Type: MACADAM Category: OTHER | Arpt Name: TRI-CITIES () Wid: Rwy Status: DRY Phase: LND | Owner Name: Operator Name/DBA: APPLACHIAN FL Rwy Surface Character: XDistance: *2M | Acft Mfr: PIPER/PA-31 FAR Part: 135 YDistance: |
| 11/16/78 | HAYS, KS Rwy ID: Lgth: 5700 Surface Type: CONCRETE Category: OTHER | Arpt Name: HAYS MUNI () Wid: Rwy Status: WET Phase: LND | Owner Name: Operator Name/DBA: FESTUS FLYING Rwy Surface Character: XDistance: *7M APT | Acft Mfr: BEECH/G18S FAR Part: 135 YDistance: |
| 11/17/78 | WINSTON-SALEM, NC Rwy ID: 33 Lgth: 6654 Surface Type: MACADAM Category: VEER | Arpt Name: SMITH-REYNOLDS () Wid: 150 Rwy Status: WET Phase: LND | Owner Name: Operator Name/DBA: PIEDMONT AVIATION Rwy Surface Character: XDistance: A1500 C3060 | Acft Mfr: BOEING/727 FAR Part: 121 YDistance: E R 85 |
| 11/29/78 | HOUSTON, TX Rwy ID: 8 Lgth: 9400 Surface Type: CONCRETE Category: VEER | Arpt Name: INTERCONTINENTAL () Wid: 150 Rwy Status: DRY Phase: LND | Owner Name: Operator Name/DBA: FLYING TIGER Rwy Surface Character: XDistance: UNK | Acft Mfr: DOUGLAS/DC-8-6 FAR Part: 121 YDistance: E L 95 |
| 12/07/78 | ROCKFORD, IL Rwy ID: 36 Lgth: 8198 Surface Type: MACADAM Category: L OFF | Arpt Name: GREATER ROCKFORD () Wid: Rwy Status: DRY Phase: LND | Owner Name: Operator Name/DBA: INTERMNL AVI Rwy Surface Character: XDistance: 837 | Acft Mfr: CESSNA/401A FAR Part: 135 YDistance: R 325 |
| 12/08/78 | HASTINGS, MN Rwy ID: Lgth: Surface Type: Category: OTHER | Arpt Name: () Wid: Rwy Status: Phase: LND | Owner Name: Operator Name/DBA: RAPID AIR INC Rwy Surface Character: XDistance: UNK | Acft Mfr: CESSNA/402 FAR Part: 135 YDistance: UNK |
| 12/18/78 | CLEVELAND, OH Rwy ID: 36 L Lgth: 6411 Surface Type: MACADAM Category: VEER | Arpt Name: CLEVELAND HOPKIN () Wid: 150 Rwy Status: DRY Phase: LND | Owner Name: Operator Name/DBA: FISCHER BROS Rwy Surface Character: XDistance: UNK | Acft Mfr: DEHAVILLAN/114-2X FAR Part: 135 YDistance: UNK |
| 12/28/78 | PORTLAND, OR Rwy ID: Lgth: 11014 Surface Type: MACADAM Category: OTHER | Arpt Name: PORTLAND INTL () Wid: Rwy Status: DRY Phase: LND | Owner Name: Operator Name/DBA: UNITED AIRLINES Rwy Surface Character: XDistance: *6.1NM APT | Acft Mfr: DOUGLAS/DC-8 FAR Part: 121 YDistance: |
| 01/04/79 | SACRAMENTO, CA Rwy ID: Lgth: 3954 Surface Type: MACADAM Category: OTHER | Arpt Name: SACRAMENTO EXEC () Wid: Rwy Status: UNK/NR Phase: T/O | Owner Name: Operator Name/DBA: UNION FLIGHTS Rwy Surface Character: XDistance: UNK | Acft Mfr: BEECH/G18S FAR Part: 135 YDistance: UNK |

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| | | | | | |
|----------|--------------------|--|---|---|--|
| 01/05/79 | UMIAT, AK | Rwy ID: 5000 Surface Type: MACADAM Category: UNDER | Arprt Name: INIGOK () Wid: 150 Rwy Status: SNOW-COVERED Phase: LND | Owner Name: Operator Name/DBA: GREAT NORTHERN AIRLINES Rwy Surface Character: XDistance: 8 | Acft Mfr: LOCKHEED/188A FAR Part: 121 YDistance: L 70 |
| 01/15/79 | MISSOULA, MT | Rwy ID: 29 Lgth: 9500 Surface Type: MACADAM Category: VEER | Arprt Name: MISSOULA COUNTY () Wid: 150 Rwy Status: SNOW-COVERED Phase: T/O | Owner Name: Operator Name/DBA: BIG SKY AIRLI Rwy Surface Character: XDistance: 84200 | Acft Mfr: HANDLY-PAG/HP-137 FAR Part: 135 YDistance: D L 135 |
| 01/15/79 | WISCONSIN RPDS, WI | Rwy ID: 20 Lgth: 4800 Surface Type: MACADAM Category: VEER | Arprt Name: ALEXANDRIA FIELD () Wid: 75 Rwy Status: SNOW-COVERED Phase: LND | Owner Name: Operator Name/DBA: MIDSTATE AIRL Rwy Surface Character: XDistance: A 230 B 700 | Acft Mfr: SWEARINGEN/SA-226 FAR Part: 135 YDistance: D L 60 |
| 01/19/79 | GRAND RAPIDS, MI | Rwy ID: 26 L Lgth: 7600 Surface Type: MACADAM Category: VEER | Arprt Name: KENT COUNTY INTL () Wid: 150 Rwy Status: ICE COVERED Phase: LND | Owner Name: Operator Name/DBA: L.J.SIMMONS Rwy Surface Character: XDistance: 82300 | Acft Mfr: AEROSTAR/601 FAR Part: 135 YDistance: D L 132 |
| 01/24/79 | CHICAGO, IL | Rwy ID: 27 L Lgth: 10140 Surface Type: CONCRETE Category: VEER | Arprt Name: CHICAGO-D'HARE () Wid: 150 Rwy Status: SNOW-COVERED Phase: LND | Owner Name: Operator Name/DBA: SMB STAGELINE Rwy Surface Character: XDistance: UNK | Acft Mfr: BEECH/B-18 FAR Part: 135 YDistance: L UNK |
| 01/27/79 | SPRINGFIELD, IL | Rwy ID: 4 Lgth: 8000 Surface Type: CONCRETE Category: VEER | Arprt Name: CAPITAL () Wid: 150 Rwy Status: SNOW-COVERED Phase: T/O | Owner Name: Operator Name/DBA: GREAT WESTERN Rwy Surface Character: XDistance: UNK | Acft Mfr: BEECH/E18-S FAR Part: 135 YDistance: UNK |
| 01/31/79 | LACONIA, NH | Rwy ID: 8 Lgth: 5505 Surface Type: VEER | Arprt Name: LACONIA () Wid: 150 Rwy Status: SNOW Phase: LND | Owner Name: Operator Name/DBA: WINNIPESAUKEE Rwy Surface Character: XDistance: UNK | Acft Mfr: PIPER/PA-31 FAR Part: 135 YDistance: UNK |
| 02/07/79 | BOSTON, MA | Rwy ID: 9 Lgth: 7000 Surface Type: MACADAM Category: VEER | Arprt Name: LOGAN INTL () Wid: 150 Rwy Status: SNOW Phase: T/O | Owner Name: Operator Name/DBA: MIDWEST AIR C Rwy Surface Character: XDistance: A1300 B3375 | Acft Mfr: CESSNA/500 FAR Part: 135 YDistance: UNK |
| 02/09/79 | MIAMI, FL | Rwy ID: 10500 Surface Type: MACADAM Category: OTHER | Arprt Name: DADE-COLLIER JET () Wid: 150 Rwy Status: DRY Phase: T/O | Owner Name: Operator Name/DBA: EASTERN AIRLI Rwy Surface Character: XDistance: 5700APP | Acft Mfr: DOUGLAS/DC-9 FAR Part: 121 YDistance: L 825 |
| 02/12/79 | CLARKSBURG, WV | Rwy ID: 5198 Surface Type: TWO OR MORE Category: OTHER | Arprt Name: BENEDUM () Wid: 150 Rwy Status: SNOW-COVERED Phase: T/O | Owner Name: Operator Name/DBA: USAIR Rwy Surface Character: XDistance: 60 | Acft Mfr: FRAKES/M298 FAR Part: 121 YDistance: R 137 |

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| 02/15/79 | CHICAGO, IL Rwy ID: 9 R Lgth: 10140 Surface Type: Category: VEER | Arprt Name: O'HARE INTL () Wid: 150 Rwy Status: Phase: LND | Owner Name: Operator Name/DBA: Rwy Surface Character: XDistance: A4100 B5425 | Acft Mfr: BOEING/747 FAR Part: 121 YDistance: D R 175 |
| 02/15/79 | MIAMI, FL Rwy ID: Lgth: 9601 Surface Type: CONCRETE Category: UNDER | Arprt Name: MIAMI INTL () Wid: Rwy Status: Phase: LND | Owner Name: Operator Name/DBA: Rwy Surface Character: XDistance: 66 | Acft Mfr: BOEING/727 FAR Part: 121 YDistance: 0 |
| 02/24/79 | ONEONTA, NY Rwy ID: Lgth: 3400 Surface Type: MACADAM Category: UNDER | Arprt Name: ONEONTA MUNICIPA () Wid: Rwy Status: UNK/NR Phase: LND | Owner Name: Operator Name/DBA: CATSKILL AIRW Rwy Surface Character: XDistance: 400 | Acft Mfr: BEECH/58 FAR Part: 135 YDistance: R 228 |
| 02/27/79 | INDIANAPOLIS, IN Rwy ID: Lgth: 7600 Surface Type: CONCRETE Category: OTHER | Arprt Name: INDIANAPOLIS INT () Wid: Rwy Status: DRY Phase: T/O | Owner Name: Operator Name/DBA: Rwy Surface Character: XDistance: 5565 APP | Acft Mfr: BEECH/E18S FAR Part: 135 YDistance: L1245 |
| 02/27/79 | CHEYENNE, WY Rwy ID: Lgth: 4997 Surface Type: Category: OTHER | Arprt Name: CHEYENNE MUNI () Wid: Rwy Status: Phase: T/O | Owner Name: Operator Name/DBA: ROCKY MOUNTAI Rwy Surface Character: XDistance: *1NM ESE | Acft Mfr: DEHAVILLAN/DHC-6 FAR Part: 135 YDistance: |
| 03/01/79 | GULFPORT, MS Rwy ID: Lgth: 5700 Surface Type: Category: OTHER | Arprt Name: GULFPORT-BILOXI () Wid: Rwy Status: Phase: T/O | Owner Name: Operator Name/DBA: UNIVERSAL AIR Rwy Surface Character: XDistance: 500 | Acft Mfr: BEECH/BE-70 FAR Part: 135 YDistance: R 700 |
| 03/10/79 | MARINA DEL REY, CA Rwy ID: Lgth: Surface Type: Category: OTHER | Arprt Name: LOS ANGELES INTL () Wid: Rwy Status: Phase: T/O | Owner Name: Operator Name/DBA: SWIFT AIR LI Rwy Surface Character: XDistance: *1.6NM | Acft Mfr: NORD-AVION/262 FAR Part: 135 YDistance: |
| 03/22/79 | ST LOUIS, MO Rwy ID: 12 R Lgth: 10018 Surface Type: CONCRETE Category: VEER | Arprt Name: LAMBERT-ST LOUIS () Wid: 200 Rwy Status: WET Phase: LND | Owner Name: Operator Name/DBA: EASTERN AIRLINES Rwy Surface Character: XDistance: A4000 B6000 | Acft Mfr: DOUGLAS/DC-9 FAR Part: 121 YDistance: D L 125 |
| 03/23/79 | CEDAR RAPIDS, IA Rwy ID: Lgth: 5450 Surface Type: MACADAM Category: OTHER | Arprt Name: CEDAR RAPIDS MUN () Wid: Rwy Status: SLUSH COVERED Phase: T/O | Owner Name: Operator Name/DBA: GREAT WESTERN Rwy Surface Character: XDistance: 350 | Acft Mfr: BEECH/E18S FAR Part: 135 YDistance: L 500 |
| 04/03/79 | CHICAGO, IL Rwy ID: Lgth: 10140 Surface Type: CONCRETE Category: OTHER | Arprt Name: OHARE INTL () Wid: Rwy Status: DRY Phase: T/O | Owner Name: Operator Name/DBA: BURL AIR FREI Rwy Surface Character: XDistance: UNK | Acft Mfr: BEECH/E18S FAR Part: 135 YDistance: UNK |

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| 04/04/79 | NEWBURG, NY | Rwy ID: 6006 Lgth: Surface Type: MACADAM Category: OTHER | Arpt Name: STEUART () Wid: Rwy Status: DRY Phase: T/O | Owner Name: Operator Name/DBA: PROVIDENCE AI Rwy Surface Character: XDistance: *.25M | Acft Mfr: BEECH/E-18 FAR Part: 135 YDistance: UNK |
| 04/16/79 | MOLOKAI, HI | Rwy ID: 4493 Lgth: Surface Type: MACADAM Category: OTHER | Arpt Name: MOLOKAI () Wid: Rwy Status: WET Phase: T/O | Owner Name: Operator Name/DBA: ALII AIR HAWA Rwy Surface Character: XDistance: 1500 | Acft Mfr: BEECH/D-18 FAR Part: 135 YDistance: UNK |
| 04/17/79 | SAN FRANCISCO, CA | Rwy ID: 28 L Lgth: 10600 Surface Type: Category: VEER | Arpt Name: SAN FRANCISCO IN () Wid: 200 Rwy Status: Phase: LND | Owner Name: Operator Name/DBA: YOSEMITE AIR Rwy Surface Character: XDistance: UNK | Acft Mfr: BEECH/65-A80 FAR Part: 135 YDistance: UNK |
| 05/25/79 | CHICAGO, IL | Rwy ID: 10003 Lgth: Surface Type: CONCRETE Category: OTHER | Arpt Name: CHICAGO-O'HARE () Wid: Rwy Status: DRY Phase: T/O | Owner Name: Operator Name/DBA: AMERICAN AIRLINES Rwy Surface Character: XDistance: 4500 | Acft Mfr: DOUGLAS/DC-10 FAR Part: 121 YDistance: L1100 |
| 05/29/79 | PHOENIX, AZ | Rwy ID: 10300 Lgth: Surface Type: MACADAM Category: UNDER | Arpt Name: SKY HARBOR INTL () Wid: Rwy Status: Phase: LND | Owner Name: Operator Name/DBA: COMBS AIRWAYS Rwy Surface Character: XDistance: 800 | Acft Mfr: AERO COMDR/680-FL FAR Part: 135 YDistance: UNK |
| 05/30/79 | ROCKLAND, ME | Rwy ID: Lgth: Surface Type: Category: OTHER | Arpt Name: KNOX COUNTY RGHL () Wid: Rwy Status: Phase: LND | Owner Name: Operator Name/DBA: DOWNEAST AIRL Rwy Surface Character: XDistance: *.12M | Acft Mfr: DEHAVILLAN/DHC-6 FAR Part: 135 YDistance: |
| 06/09/79 | SAINT MARYS, AK | Rwy ID: 6000 Lgth: Surface Type: MACADAM Category: VEER | Arpt Name: ST MARYS () Wid: 150 Rwy Status: WET Phase: T/O | Owner Name: Operator Name/DBA: WESTERN YUKON Rwy Surface Character: XDistance: UNK | Acft Mfr: CESSNA/180 FAR Part: 135 YDistance: UNK |
| 06/11/79 | ST LOUIS, MO | Rwy ID: 7602 Lgth: Surface Type: CONCRETE Category: VEER | Arpt Name: LAMBERT () Wid: 150 Rwy Status: DRY Phase: LND | Owner Name: Operator Name/DBA: MIDWEST AIR C Rwy Surface Character: XDistance: A2800 | Acft Mfr: DEHAVILLAN/DH 104 FAR Part: 135 YDistance: D R 275 |
| 06/17/79 | HYANNIS, MA | Rwy ID: 5563 Lgth: Surface Type: MACADAM Category: OTHER | Arpt Name: BARNSTABLE MUNI () Wid: Rwy Status: WET Phase: LND | Owner Name: Operator Name/DBA: AIR NEW ENGLA Rwy Surface Character: XDistance: 9000 | Acft Mfr: DEHAVILLAN/DHC-6 FAR Part: 121 YDistance: 0 |
| 07/24/79 | ST CROIX, VI | Rwy ID: 7612 Lgth: Surface Type: MACADAM Category: OTHER | Arpt Name: ALEX HAMILTON () Wid: Rwy Status: Phase: T/O | Owner Name: Operator Name/DBA: PRIMAIR Rwy Surface Character: XDistance: 5500 APP | Acft Mfr: DEHAVILLAN/DH-114 FAR Part: 135 YDistance: R 792 |

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| 07/25/79 | TIN CITY, AK Rwy ID: 34 Lgth: 4700 Surface Type: GRAVEL Category: VEER | Arpt Name: TIN CITY () Wid: 135 Rwy Status: UNK/NR Phase: LND | Owner Name: Operator Name/DBA: MUNTZ NORTHERN AIRLINES Rwy Surface Character: XDistance: UNK | Acft Mfr: BRITNORMA/BN-2A FAR Part: 121 YDistance: L UNK |
| 07/25/79 | FT WOOD, MO Rwy ID: 14 Lgth: 5008 Surface Type: MACADAM Category: VEER | Arpt Name: FORNEY AAF () Wid: 150 Rwy Status: WET Phase: LND | Owner Name: Operator Name/DBA: SKYWAY AVIATI Rwy Surface Character: XDistance: UNK | Acft Mfr: BEECH/E18S FAR Part: 135 YDistance: L UNK |
| 08/21/79 | HICKORY, NC Rwy ID: Lgth: 6402 Surface Type: MACADAM Category: OTHER | Arpt Name: HICKORY MUNICIPAL () Wid: Rwy Status: Phase: LND | Owner Name: Operator Name/DBA: AIR CAROLINA Rwy Surface Character: XDistance: 2400 | Acft Mfr: PIPER/PA-32 FAR Part: 135 YDistance: 0 |
| 08/30/79 | MIDDLETOWN, PA Rwy ID: Lgth: 9501 Surface Type: MACADAM Category: OTHER | Arpt Name: HARRISBURG INTL () Wid: Rwy Status: DRY Phase: LND | Owner Name: Operator Name/DBA: KEYSTONE AVIA Rwy Surface Character: XDistance: 8892 | Acft Mfr: BEECH/58 FAR Part: 135 YDistance: 0 |
| 09/19/79 | SUFFIELD, CT Rwy ID: Lgth: 5246 Surface Type: CONCRETE Category: OTHER | Arpt Name: BRADLEY INTL () Wid: Rwy Status: DRY Phase: T/O | Owner Name: Operator Name/DBA: MOUNTAIN AIR Rwy Surface Character: XDistance: 2600 | Acft Mfr: BEECH/E18S FAR Part: 135 YDistance: L1100 |
| 10/08/79 | CRESTED BUTTE, CO Rwy ID: 29 Lgth: 4500 Surface Type: GRAVEL Category: VEER | Arpt Name: CRESTED BUTTE () Wid: 90 Rwy Status: DRY Phase: T/O | Owner Name: Operator Name/DBA: CRESTED BUTTE Rwy Surface Character: XDistance: A1300 | Acft Mfr: BRITNORMA/BN2A-9 FAR Part: 135 YDistance: UNK |
| 10/08/79 | COVINGTON, KY Rwy ID: Lgth: 9500 Surface Type: MACADAM Category: OTHER | Arpt Name: GRTR CINCINNATI () Wid: Rwy Status: DRY Phase: T/O | Owner Name: Operator Name/DBA: COMAIR, INC. Rwy Surface Character: XDistance: 8695 | Acft Mfr: PIPER/PA-31 FAR Part: 135 YDistance: R1189 |
| 10/14/79 | PANAMA CTY, PM Rwy ID: 3 R Lgth: 10000 Surface Type: CONCRETE Category: VEER | Arpt Name: TOCUMEN () Wid: 148 Rwy Status: WET Phase: LND | Owner Name: Operator Name/DBA: BRANIFF INT'L Rwy Surface Character: XDistance: 86700 | Acft Mfr: DOUGLAS/DC-8 FAR Part: 121 YDistance: D R 174 |
| 10/24/79 | MINNEAPOLIS, MN Rwy ID: Lgth: Surface Type: Category: VEER | Arpt Name: MINNEAPOLIS-ST P () Wid: 150 Rwy Status: Phase: LND | Owner Name: Operator Name/DBA: MESABA AIRWAY Rwy Surface Character: XDistance: UNK | Acft Mfr: BEECH/99 FAR Part: 135 YDistance: UNK |
| 10/31/79 | THIEF RIV FLS, MN Rwy ID: 31 Lgth: 6500 Surface Type: MACADAM Category: VEER | Arpt Name: THIEF RIV FLS RE () Wid: 150 Rwy Status: SLUSH COVERED Phase: LND | Owner Name: Operator Name/DBA: REPUBLIC AIRLINES Rwy Surface Character: XDistance: A2000 83000 | Acft Mfr: CONVAIR/580 FAR Part: 121 YDistance: D L 125 |

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| 11/02/79 | GREENVILLE, SC | Arpt Name: GREENVILLE DUNTM () | Owner Name: | Acft Mfr: PIPER/PA-31 |
| Rwy ID: 5393 | Lgth: 5393 | Wid: 100 | Operator Name/DBA: BANKAIR, INC | FAR Part: 135 |
| Surface Type: MACADAM | | Rwy Status: DRY | Rwy Surface Character: | |
| Category: OTHER | | Phase: T/O | XDistance: *1M NW APT | YDistance: |
| 11/05/79 | TAU, AS | Arpt Name: TAU () | Owner Name: | Acft Mfr: DEHAVILLAN/DHC-6 |
| Rwy ID: 1620 | Lgth: 1620 | Wid: 100 | Operator Name/DBA: SOUTH PACIFIC | FAR Part: 135 |
| Surface Type: CORAL | | Rwy Status: DRY | Rwy Surface Character: | |
| Category: VEER | | Phase: LND | XDistance: UNK | YDistance: UNK |
| 11/16/79 | TUSAYAN, AZ | Arpt Name: GRAND CANYON () | Owner Name: | Acft Mfr: MARTIN/404 |
| Rwy ID: 9000 | Lgth: 9000 | Wid: 100 | Operator Name/DBA: | FAR Part: 121 |
| Surface Type: MACADAM | | Rwy Status: DRY | Rwy Surface Character: | |
| Category: OTHER | | Phase: T/O | XDistance: 7531 | YDistance: L2447 |
| 11/24/79 | FREESPORT, BA | Arpt Name: () | Owner Name: | Acft Mfr: CONVAIR/440 |
| Rwy ID: 11000 | Lgth: 11000 | Wid: | Operator Name/DBA: MACKEY INTERNATIONAL | FAR Part: 121 |
| Surface Type: | | Rwy Status: | Rwy Surface Character: | |
| Category: VEER | | Phase: LND | XDistance: A4000 | YDistance: D L 225 |
| 01/17/80 | LA CROSSE, WI | Arpt Name: LA CROSSE MUNI () | Owner Name: | Acft Mfr: BEECH/99 |
| Rwy ID: 5298 | Lgth: 5298 | Wid: 150 | Operator Name/DBA: MISSISSIPPI V | FAR Part: 135 |
| Surface Type: MACADAM | | Rwy Status: SLUSH COVERED | Rwy Surface Character: | |
| Category: VEER | | Phase: LND | XDistance: UNK | YDistance: UNK |
| 01/18/80 | ST. CROIX, VI | Arpt Name: ALEX HAMILTON () | Owner Name: | Acft Mfr: PIPER/PA-31 |
| Rwy ID: 7612 | Lgth: 7612 | Wid: | Operator Name/DBA: EASTERN CARIB | FAR Part: 135 |
| Surface Type: MACADAM | | Rwy Status: DRY | Rwy Surface Character: | |
| Category: OTHER | | Phase: T/O | XDistance: *1.5M SSE | YDistance: |
| 02/29/80 | MOAB, UT | Arpt Name: CANYONLANDS () | Owner Name: | Acft Mfr: PIPER/PA-31 |
| Rwy ID: 6901 | Lgth: 6901 | Wid: | Operator Name/DBA: TRANSWESTERN | FAR Part: 135 |
| Surface Type: MACADAM | | Rwy Status: DRY | Rwy Surface Character: | |
| Category: OTHER | | Phase: T/O | XDistance: 963 | YDistance: 0 |
| 03/06/80 | SOUTH NAKNEK, AK | Arpt Name: SOUTH NAKNEK NR () | Owner Name: | Acft Mfr: CESSNA/207 |
| Rwy ID: 2600 | Lgth: 2600 | Wid: 85 | Operator Name/DBA: KODIAK WESTER | FAR Part: 135 |
| Surface Type: GRAVEL | | Rwy Status: WET | Rwy Surface Character: | |
| Category: VEER | | Phase: LND | XDistance: A 870 B1680 | YDistance: D R 135 |
| 03/17/80 | BATON ROUGE, LA | Arpt Name: RYAN () | Owner Name: | Acft Mfr: DOUGLAS/DC-9 |
| Rwy ID: 5799 | Lgth: 5799 | Wid: | Operator Name/DBA: TEXAS INTERNATIONAL AIRLINES | FAR Part: 121 |
| Surface Type: CONCRETE | | Rwy Status: WET | Rwy Surface Character: | |
| Category: OVER | | Phase: LND | XDistance: 350 | YDistance: R 200 |
| 03/21/80 | HOUSTON, TX | Arpt Name: WILLIAM P. HOBBY () | Owner Name: | Acft Mfr: PIPER/PA-31 |
| Rwy ID: 7602 | Lgth: 7602 | Wid: | Operator Name/DBA: EAGLE COMMUTE | FAR Part: 135 |
| Surface Type: CONCRETE | | Rwy Status: DRY | Rwy Surface Character: | |
| Category: OTHER | | Phase: T/O | XDistance: 6500 APP | YDistance: R1275 |

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| 05/12/80 | FORT WORTH, TX | Arpt Name: MANGHAM () | Owner Name: | Acft Mfr: PIPER/PA-31 |
| Rwy ID: | Lgth: 250 | Mid: | Operator Name/DBA: ASAP AIR, INC | FAR Part: 135 |
| Surface Type: | | Rwy Status: WET | Rwy Surface Character: | |
| Category: OTHER | | Phase: T/O | XDistance: 500 | YDistance: UNK |
| 06/18/80 | ALDER CREEK, AK | Arpt Name: ALDER CREEK () | Owner Name: | Acft Mfr: CESSNA/207 |
| Rwy ID: | Lgth: 1800 | Mid: | Operator Name/DBA: AIR NORTH | FAR Part: 135 |
| Surface Type: DIRT | | Rwy Status: ROUGH | Rwy Surface Character: | |
| Category: OTHER | | Phase: T/O | XDistance: UNK | YDistance: UNK |
| 06/19/80 | ATLANTA, GA | Arpt Name: HARTSFIELD INTL () | Owner Name: | Acft Mfr: SUD AVN/SE-210 |
| Rwy ID: 26 | Lgth: 10000 | Mid: 150 | Operator Name/DBA: AIRBORNE EXPRESS | FAR Part: 121 |
| Surface Type: CONCRETE | | Rwy Status: DRY | Rwy Surface Character: | |
| Category: VEER | | Phase: LND | XDistance: A2100 B4526 | YDistance: D L 250 |
| 07/07/80 | JACKSON, MS | Arpt Name: ALLEN C THOMPSON () | Owner Name: | Acft Mfr: AERO COMDR/680V |
| Rwy ID: | Lgth: 8500 | Mid: | Operator Name/DBA: ASTRO WINGS I | FAR Part: 135 |
| Surface Type: MACADAM | | Rwy Status: WET | Rwy Surface Character: | |
| Category: OTHER | | Phase: LND | XDistance: *1.5M | YDistance: |
| 07/21/80 | TUSAYAN, AZ | Arpt Name: GRND CYN NATL PK () | Owner Name: | Acft Mfr: CESSNA/404 |
| Rwy ID: | Lgth: 8999 | Mid: | Operator Name/DBA: SCENIC AIRLIN | FAR Part: 135 |
| Surface Type: MACADAM | | Rwy Status: DRY | Rwy Surface Character: | |
| Category: OTHER | | Phase: T/O | XDistance: *3M S APT | YDistance: |
| 07/25/80 | PHILADELPHIA, PA | Arpt Name: PHILADELPHIA INT () | Owner Name: | Acft Mfr: PIPER/PA-31 |
| Rwy ID: | Lgth: 9500 | Mid: | Operator Name/DBA: AIR PENNSYLV | FAR Part: 135 |
| Surface Type: MACADAM | | Rwy Status: DRY | Rwy Surface Character: | |
| Category: UNDER | | Phase: LND | XDistance: 300 | YDistance: L 480 |
| 08/20/80 | HARTFORD, CT | Arpt Name: HARTFORD-BRAINAR () | Owner Name: | Acft Mfr: PIPER/PA-23 |
| Rwy ID: | Lgth: 3869 | Mid: | Operator Name/DBA: CORPORATE AIR | FAR Part: 135 |
| Surface Type: MACADAM | | Rwy Status: WET | Rwy Surface Character: | |
| Category: OVER | | Phase: LND | XDistance: 49 | YDistance: 0 |
| 08/24/80 | KILLEEN, TX | Arpt Name: KILLEEN MUNI () | Owner Name: | Acft Mfr: SWEARINGEN/SA226 |
| Rwy ID: | Lgth: 4445 | Mid: | Operator Name/DBA: <10 AIRWAYS, | FAR Part: 135 |
| Surface Type: MACADAM | | Rwy Status: DRY | Rwy Surface Character: | |
| Category: UNDER | | Phase: LND | XDistance: 15 | YDistance: 0 |
| 09/12/80 | FAIRBANKS, AK | Arpt Name: FAIRBANKS INTL () | Owner Name: | Acft Mfr: CESSNA/207 |
| Rwy ID: | Lgth: 3200 | Mid: | Operator Name/DBA: AURORA AIR SE | FAR Part: 135 |
| Surface Type: MACADAM | | Rwy Status: DRY | Rwy Surface Character: | |
| Category: OTHER | | Phase: T/O | XDistance: 600 | YDistance: L 150 |
| 09/21/80 | WICHITA FALLS, TX | Arpt Name: WICHITA FALLS MU () | Owner Name: | Acft Mfr: DEHAVILLAN/DHC-6 |
| Rwy ID: | Lgth: 7000 | Mid: | Operator Name/DBA: RIO AIRLINES | FAR Part: 135 |
| Surface Type: MACADAM | | Rwy Status: DRY | Rwy Surface Character: | |
| Category: OTHER | | Phase: T/O | XDistance: 2800 APP | YDistance: UNK |

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| 09/29/80 | LEVELOCK, AK Rwy ID: Lgth: 1880 Surface Type: DIRT Category: OTHER | Arpt Name: LEVELOCK () Wid: Rwy Status: DRY Phase: T/O | Owner Name: Operator Name/DBA: KODIAK WESTER Rwy Surface Character: XDistance: UNK | Acft Mfr: CESSNA/207 FAR Part: 135 YDistance: UNK |
| 11/11/80 | NEWARK, NJ Rwy ID: 4 R Lgth: 8200 Surface Type: Category: VEER | Arpt Name: NEWARK INTL () Wid: 150 Rwy Status: Phase: LND | Owner Name: Operator Name/DBA: BRANIFF AIRWAYS Rwy Surface Character: XDistance: A4700 B6000 | Acft Mfr: BOEING/727 FAR Part: 121 YDistance: D L 475 |
| 11/21/80 | YAP, WEST CARO IS, TQ Rwy ID: Lgth: 4820 Surface Type: TWO OR MORE Category: UNDER | Arpt Name: YAP () Wid: Rwy Status: WET Phase: LND | Owner Name: Operator Name/DBA: CONTINENTAL AIRLINES Rwy Surface Character: XDistance: 13 | Acft Mfr: BOEING/727 FAR Part: 121 YDistance: 0 |
| 01/20/81 | SPOKANE, WA Rwy ID: Lgth: 9000 Surface Type: MACADAM Category: OTHER | Arpt Name: SPOKANE INTL () Wid: Rwy Status: UNK/NR Phase: LND | Owner Name: Operator Name/DBA: CASCADE AIRWA Rwy Surface Character: XDistance: *4.5NM | Acft Mfr: BEECH/99A FAR Part: 135 YDistance: |
| 01/28/81 | SAN JUAN, PR Rwy ID: 25 Lgth: 10002 Surface Type: MACADAM Category: VEER | Arpt Name: PUERTO RICO INTL () Wid: 200 Rwy Status: DRY Phase: LND | Owner Name: Operator Name/DBA: SUN INTERNATI Rwy Surface Character: XDistance: A3500 | Acft Mfr: BEECH/G18S FAR Part: 135 YDistance: D L 150 |
| 02/02/81 | ROEBUCK, SC Rwy ID: Lgth: 5203 Surface Type: MACADAM Category: OTHER | Arpt Name: SPARTANBURG () Wid: Rwy Status: DRY Phase: T/O | Owner Name: Operator Name/DBA: BANKAIR INC. Rwy Surface Character: XDistance: UNK | Acft Mfr: PIPER/PA-28R FAR Part: 135 YDistance: UNK |
| 02/03/81 | AMBLER, AK Rwy ID: 36 Lgth: 2200 Surface Type: GRAVEL Category: VEER | Arpt Name: AMBLER () Wid: 80 Rwy Status: SNOW-COVERED Phase: T/O | Owner Name: Operator Name/DBA: EVERGREEN HEL Rwy Surface Character: XDistance: 8 945 | Acft Mfr: DENAVILLAN/DHC-6 FAR Part: 135 YDistance: D L 50 |
| 02/10/81 | PRESCOTT, AZ Rwy ID: Lgth: 7600 Surface Type: MACADAM Category: OTHER | Arpt Name: ERNEST A. LOVE () Wid: Rwy Status: DRY Phase: LND | Owner Name: Operator Name/DBA: DESERT PACIFI Rwy Surface Character: XDistance: UNK | Acft Mfr: PIPER/PA-31 FAR Part: 135 YDistance: UNK |
| 02/13/81 | GRAND ISLAND, NE Rwy ID: Lgth: 7189 Surface Type: MACADAM Category: VEER | Arpt Name: HALL COUNTY () Wid: 150 Rwy Status: DRY Phase: LND | Owner Name: Operator Name/DBA: PIONEER AIRWA Rwy Surface Character: XDistance: UNK | Acft Mfr: BEECH/99 FAR Part: 135 YDistance: R UNK |
| 02/17/81 | SANTA ANA, CA Rwy ID: 19 R Lgth: 5700 Surface Type: MACADAM Category: VEER | Arpt Name: JOHN WAYNE () Wid: 150 Rwy Status: UNK/NR Phase: LND | Owner Name: Operator Name/DBA: AIR CALIFORNIA Rwy Surface Character: XDistance: A 900 B2070 | Acft Mfr: BOEING/737 FAR Part: 121 YDistance: D R 115 |

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| 02/18/81 | LUBBOCK, TX Rwy ID: 8 Lgth: 8001 Surface Type: CONCRETE Category: VEER | Arprt Name: LUBBOCK INTL () Wid: 150 Rwy Status: DRY Phase: LND | Owner Name: Operator Name/DBA: COKER AIRFREI Rwy Surface Character: XDistance: UNK | Acft Mfr: BEECH/E18S FAR Part: 135 YDistance: L UNK |
| 03/04/81 | KIRKSVILLE, MO Rwy ID: Lgth: 6004 Surface Type: CONCRETE Category: OTHER | Arprt Name: CLARENCE CANNON () Wid: Rwy Status: UNK/NR Phase: LND | Owner Name: Operator Name/DBA: GREEN HILLS A Rwy Surface Character: XDistance: 5100 | Acft Mfr: PIPER/PA-31 FAR Part: 135 YDistance: 0 |
| 03/11/81 | HAZELTON, PA Rwy ID: Lgth: 4900 Surface Type: MACADAM Category: OVER | Arprt Name: HAZELTON MUNI () Wid: Rwy Status: SNOW-COVERED Phase: T/O | Owner Name: Operator Name/DBA: AIR PENNSYLVIA Rwy Surface Character: XDistance: 154 | Acft Mfr: BEECH/H18 FAR Part: 135 YDistance: 0 |
| 03/26/81 | EAU CLAIRE, WI Rwy ID: Lgth: 7300 Surface Type: OTHER Category: OTHER | Arprt Name: EAU CLAIRE MUNI () Wid: Rwy Status: Phase: LND | Owner Name: Operator Name/DBA: AERODYNE, INC Rwy Surface Character: XDistance: *7N SW APT | Acft Mfr: BEECH/95-C55 FAR Part: 135 YDistance: |
| 04/18/81 | SAND POINT, AK Rwy ID: Lgth: 3800 Surface Type: GRAVEL Category: UNDER | Arprt Name: SAND POINT () Wid: Rwy Status: DRY Phase: LND | Owner Name: Operator Name/DBA: REEVE ALEUTIAN AIRWAYS Rwy Surface Character: XDistance: 10 | Acft Mfr: N110N/YS-11A FAR Part: 121 YDistance: 0 |
| 04/26/81 | HOUSTON, TX Rwy ID: Lgth: Surface Type: Category: OTHER | Arprt Name: HOBBY () Wid: Rwy Status: Phase: T/O | Owner Name: Operator Name/DBA: EAGLE AIRLINE Rwy Surface Character: XDistance: *1M E APT | Acft Mfr: PIPER/PA-31 FAR Part: 135 YDistance: |
| 05/09/81 | MARSHALL, AK Rwy ID: Lgth: 1400 Surface Type: TWO OR MORE Category: OVER | Arprt Name: MARSHALL () Wid: Rwy Status: ROUGH Phase: LND | Owner Name: Operator Name/DBA: COASTAL AVN Rwy Surface Character: XDistance: UNK | Acft Mfr: CESSNA/207A FAR Part: 135 YDistance: UNK |
| 06/16/81 | ABILENE, TX Rwy ID: Lgth: Surface Type: CONCRETE Category: VEER | Arprt Name: DYESS AFB () Wid: Rwy Status: OTHER Phase: LND | Owner Name: Operator Name/DBA: MUTUAL AIR EX Rwy Surface Character: XDistance: UNK | Acft Mfr: CESSNA/R182 FAR Part: 135 YDistance: R UNK |
| 06/17/81 | SHREVEPORT, LA Rwy ID: 14 Lgth: 7300 Surface Type: MACADAM Category: VEER | Arprt Name: SHREVEPORT RGML () Wid: 200 Rwy Status: DRY Phase: T/O | Owner Name: Operator Name/DBA: ROYALE AIRLIN Rwy Surface Character: XDistance: UNK | Acft Mfr: BEECH/B99 FAR Part: 135 YDistance: L UNK |
| 06/22/81 | MIAMI, FL Rwy ID: 9 L Lgth: 10500 Surface Type: MACADAM Category: VEER | Arprt Name: MIAMI INTL () Wid: 200 Rwy Status: DRY Phase: T/O | Owner Name: Operator Name/DBA: AIR TAXI SERV Rwy Surface Character: XDistance: A5500 B5700 | Acft Mfr: PIPER/PA-23 FAR Part: 135 YDistance: D R 175 |

Appendix 2. CHRONOLOGICAL LISTING OF ACCIDENTS/INCIDENTS

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| 06/26/81 | ST. CROIX, VI | Acft Mfr: BEECH/65-80 FAR Part: 135 YDistance: UNK | Owner Name: Operator Name/DBA: OCEAN AIR INC Rwy Surface Character: XDistance: UNK | Arpt Name: ALEXANDER HAMILTON () Vid: 150 Rwy Status: DRY Phase: LND | Rwy ID: 9 Lgth: 7612 Surface Type: CONCRETE Category: VEER |
| 08/17/81 | FT. LAUDERDALE, FL | Acft Mfr: BOEING/727 FAR Part: 121 YDistance: L 215 | Owner Name: Operator Name/DBA: PAN AMERICAN WORLD AIRWAYS Rwy Surface Character: XDistance: 421 | Arpt Name: FT. LAUDERDALE () Vid: Rwy Status: WET Phase: T/O | Rwy ID: 8048 Lgth: 8048 Surface Type: MACADAM Category: OVER |
| 11/30/81 | FAYETTEVILLE, AR | Acft Mfr: BEECH/A36 FAR Part: 135 YDistance: D L 70 | Owner Name: Operator Name/DBA: MARTINAIRE, I Rwy Surface Character: XDistance: UNK | Arpt Name: DRAKE () Vid: 100 Rwy Status: DRY Phase: LND | Rwy ID: 16 Lgth: 6006 Surface Type: MACADAM Category: VEER |
| 12/30/81 | SAN JUAN, PR | Acft Mfr: CURTIS-WRT/C-46 FAR Part: 121 YDistance: D L 275 | Owner Name: Operator Name/DBA: CARIBBEAN AIR Rwy Surface Character: XDistance: UNK | Arpt Name: SAN JUAN INTL () Vid: 150 Rwy Status: WET Phase: LND | Rwy ID: 28 Lgth: 8016 Surface Type: CONCRETE Category: VEER |
| 01/13/82 | WASHINGTON, DC | Acft Mfr: BOEING/737-222 FAR Part: 121 SCHEDULED YDistance: | Owner Name: Operator Name/DBA: Rwy Surface Character: FULLY GROOVED XDistance: *.75 IN | Arpt Name: () Vid: 150 Rwy Status: SNOW-WET Phase: T/O | Rwy ID: 36 Lgth: 6869 Surface Type: ASPHALT Category: OTHER |
| 01/17/82 | HONOLULU, HI | Acft Mfr: CONVAIR/440 FAR Part: 135 SCHEDULED YDistance: | Owner Name: EMISSARY AIRWAYS, INC. Operator Name/DBA: ISLAND AIRLINES HAWAII INC. Rwy Surface Character: XDistance: *.2M APT | Arpt Name: HONOLULU INTL () Vid: Rwy Status: Phase: T/O | Rwy ID: Lgth: Surface Type: Category: OTHER |
| 01/23/82 | BOSTON, MA | Acft Mfr: McDONNELL DOUGLAS/DC-10-30 FAR Part: 121 SCHEDULED YDistance: L 110 | Owner Name: WORLD AIRWAYS, INC. Operator Name/DBA: Rwy Surface Character: XDistance: 250 | Arpt Name: BOSTON-LOGAN INT'L () Vid: 150 Rwy Status: WET Phase: LND | Rwy ID: 15 Lgth: 9191 Surface Type: CONCRETE Category: OVER |
| 02/01/82 | GROTON, CT | Acft Mfr: BEECH/99 FAR Part: 135 SCHEDULED YDistance: 0 | Owner Name: PILGRIM AIRLINES Operator Name/DBA: PILGRIM AIRLINES Rwy Surface Character: ROUGH TEXTURE XDistance: 850 | Arpt Name: GROTON-NEW LONDON (GON) Vid: 150 Rwy Status: WET Phase: LND | Rwy ID: 5 Lgth: 5000 Surface Type: ASPHALT Category: UNDER |
| 02/03/82 | PHILADELPHIA, PA | Acft Mfr: McDONNELL-DOUGLAS/DC-10-10 FAR Part: 121 SCHEDULED YDistance: R 25 | Owner Name: Operator Name/DBA: UNITED AIRLINES INC. Rwy Surface Character: FULLY GROOVED XDistance: 1220 | Arpt Name: PHILADELPHIA INTL (PHL) Vid: 150 Rwy Status: WET Phase: T/O | Rwy ID: 9 Lgth: 9500 Surface Type: ASPHALT Category: OVER |
| 02/15/82 | LOS ANGELES*, CA | Acft Mfr: BOEING/737-2M4 FAR Part: 121 YDistance: UNK | Owner Name: CONNECTICUT BANK & TRUST CO. Operator Name/DBA: AIRCAL Rwy Surface Character: XDistance: UNK | Arpt Name: LOS ANGELES INT'L (LAX) Vid: 200 Rwy Status: Phase: LND | Rwy ID: 25 L Lgth: 11096 Surface Type: Category: OVER |

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| 02/16/82 | KING SALMON, AK | Acft Mfr: MIHON/YS-11A FAR Part: 121 SCHEDULED YDistance: UNK | Owner Name: REEVE ALEUTIAN Operator Name/DBA: Rwy Surface Character: XDistance: UNK | Arprt Name: () Wid: Rwy Status: Phase: LND |
| 02/19/82 | HARLINGEN, TX | Acft Mfr: BOEING/B-727-200 FAR Part: 121 SCHEDULED YDistance: UNK | Owner Name: MEXICANA AIRLINES Operator Name/DBA: Rwy Surface Character: SMOOTH TEXTURE XDistance: 300 | Arprt Name: HARLINGEN IND. AIR PARK (HRL) Wid: 150 Rwy Status: WATER COVERED Phase: LND |
| 02/24/82 | CHICAGO, IL | Acft Mfr: SWEARINGEN/SA-227 FAR Part: 135 SCHEDULED YDistance: R UNK | Owner Name: MIDSTATE AIRLINES Operator Name/DBA: Rwy Surface Character: XDistance: UNK | Arprt Name: O'HARE (ORD) Wid: 150 Rwy Status: DRY Phase: LND |
| 03/30/82 | CHICAGO, IL | Acft Mfr: SWEARINGEN/SA226TC FAR Part: 135 SCHEDULED YDistance: R UNK | Owner Name: BRITT AIRWAYS, INC. Operator Name/DBA: Rwy Surface Character: XDistance: A1000 | Arprt Name: O'HARE INTERNATIONAL (ORD) Wid: 200 Rwy Status: DRY Phase: T/O |
| 04/09/82 | YOUNGSTOWN, OH | Acft Mfr: BOEING/727-200 FAR Part: 121 SCHEDULED YDistance: D L 75 | Owner Name: UNITED AIRLINES Operator Name/DBA: Rwy Surface Character: FULLY GROOVED XDistance: B4800 | Arprt Name: YOUNGSTOWN MUNICIPAL (YNG) Wid: 150 Rwy Status: SNOW-WET Phase: LND |
| 05/16/82 | HOOPER BAY, AK | Acft Mfr: DENAVILLAND/DHC-6-200 FAR Part: 135 SCHEDULED YDistance: 0 | Owner Name: GIFFORD AVIATION Operator Name/DBA: Rwy Surface Character: XDistance: 1300 | Arprt Name: HOOPER BAY (HPB) Wid: 100 Rwy Status: Phase: LND |
| 05/18/82 | GILLETTE, WY | Acft Mfr: GULFSTREAM AMERICAN/G-159C FAR Part: 121 SCHEDULED YDistance: UNK | Owner Name: U.S. AVIATION, INC. Operator Name/DBA: U.S. AVIATION, INC./AIR U.S., Rwy Surface Character: SMOOTH TEXTURE XDistance: B2550 | Arprt Name: GILLETTE-CAMPBELL COUNTY (GCC) Wid: 75 Rwy Status: DRY Phase: LND |
| 05/21/82 | DAYTON, OH | Acft Mfr: BAC/1-11-204AF FAR Part: 121 SCHEDULED YDistance: D R 90 | Owner Name: U.S. AIR Operator Name/DBA: Rwy Surface Character: SMOOTH TEXTURE XDistance: A3500 B3800 | Arprt Name: COX INTERNATIONAL (DAY) Wid: 150 Rwy Status: WET Phase: LND |
| 05/29/82 | DETROIT, MI | Acft Mfr: CONVAIR/240 FAR Part: 121 SCHEDULED YDistance: UNK | Owner Name: PROVIDENCE AIRLINES CORPORATION Operator Name/DBA: Rwy Surface Character: SMOOTH TEXTURE XDistance: UNK | Arprt Name: DETROIT METROPOLITAN (DTW) Wid: 150 Rwy Status: WET Phase: LND |
| 06/08/82 | GILLETTE, WY | Acft Mfr: GRUMMAN/G-159C FAR Part: 121 SCHEDULED YDistance: UNK | Owner Name: GULFSTREAM AMERICAN CORPORATION Operator Name/DBA: U.S. AVIATION, INC. Rwy Surface Character: XDistance: B3000 | Arprt Name: GILLETTE-CAMPBELL COUNTY (GCC) Wid: 75 Rwy Status: WET Phase: LND |

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| 07/05/82 | BOISE, ID | Acft Mfr: DOUGLAS/DC-9-31 FAR Part: 121 SCHEDULED YD Distance: UNK |
| Rwy ID: 28 | Lgth: 9763 | |
| Surface Type: ASPHALT | | |
| Category: OVER | | |
| 07/09/82 | NEW ORLEANS, LA | Acft Mfr: BOEING/727-235 FAR Part: 121 SCHEDULED YD Distance: |
| Rwy ID: 10 | Lgth: 9227 | |
| Surface Type: CONCRETE | | |
| Category: OTHER | | |
| 08/12/82 | NORTH PLATTE, NE | Acft Mfr: BOEING/737-291 FAR Part: 121 SCHEDULED YD Distance: R 100 |
| Rwy ID: 30 | Lgth: 8000 | |
| Surface Type: CONCRETE | | |
| Category: L OFF | | |
| 09/02/82 | FAIRBANKS, AK | Acft Mfr: CESSNA/402 FAR Part: 135 SCHEDULED YD Distance: D L 50 |
| Rwy ID: 6 | Lgth: 4600 | |
| Surface Type: ASPHALT | | |
| Category: VEER | | |
| 09/17/82 | INDIANAPOLIS, IN | Acft Mfr: BEECH/G18S FAR Part: 135 SCHEDULED YD Distance: UNK |
| Rwy ID: 31 | Lgth: 7604 | |
| Surface Type: ASPHALT | | |
| Category: OTHER | | |
| 11/04/82 | NELSON LAGOON, AK | Acft Mfr: FAIRCHILD/C-82 FAR Part: 121 NON-SCHEDULED YD Distance: 0 |
| Rwy ID: 26 | Lgth: 3100 | |
| Surface Type: DIRT | | |
| Category: UNDER | | |
| 11/22/82 | LITTLE ROCK, AR | Acft Mfr: BOEING/727-223 FAR Part: 121 SCHEDULED YD Distance: E L 100 |
| Rwy ID: 22 | Lgth: 7012 | |
| Surface Type: CONCRETE | | |
| Category: VEER | | |
| 11/26/82 | GUSTAVUS, AK | Acft Mfr: PIPER/PA-32R-300 FAR Part: 135 SCHEDULED YD Distance: UNK |
| Rwy ID: 1 | Lgth: 5400 | |
| Surface Type: ASPHALT | | |
| Category: OVER | | |
| 12/18/82 | PELLSTON, MI | Acft Mfr: DOUGLAS/DC9-30 FAR Part: 121 SCHEDULED YD Distance: 0 |
| Rwy ID: 32 | Lgth: 6512 | |
| Surface Type: ASPHALT | | |
| Category: OVER | | |
| 12/20/82 | GILLETTE, WY | Acft Mfr: SHEARING/SA-227AC FAR Part: 135 SCHEDULED YD Distance: D R 160 |
| Rwy ID: 15 | Lgth: 6500 | |
| Surface Type: ASPHALT | | |
| Category: VEER | | |

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| 12/22/82 | KLAMATH FALLS, OR | Arpt Name: KINGSLEY FIELD () | Owner Name: GATX THIRD AIRCRAFT CORP. | Acft Mfr: SWEARINGEN/SA-226TC |
| Rwy ID: 14 | Lgth: 10301 | Wid: 150 | Operator Name/DBA: | FAR Part: 135 SCHEDULED |
| Surface Type: CONCRETE | | Rwy Status: SNOW-DRY | Rwy Surface Character: SMOOTH TEXTURE | |
| Category: VEER | | Phase: T/O | XDistance: 83500 | YDistance: D L 100 |
| 01/07/83 | ANIAX, AK | Arpt Name: ANIAK (ANI) | Owner Name: HAROLDS AIR SERVICE | Acft Mfr: CESSNA/207A |
| Rwy ID: 28 | Lgth: 6000 | Wid: 150 | Operator Name/DBA: HAROLDS AIR SERVICE | FAR Part: 135 SCHEDULED |
| Surface Type: OTHER | | Rwy Status: | Rwy Surface Character: ROUGH TEXTURE | |
| Category: OTHER | | Phase: T/O | XDistance: 2650 | YDistance: UNK |
| 01/09/83 | BRAINERD, MN | Arpt Name: BRAINERD CROW WING CO () | Owner Name: | Acft Mfr: CONVAIR/580-11-A |
| Rwy ID: 23 | Lgth: 6500 | Wid: 150 | Operator Name/DBA: REPUBLIC AIRLINES, INC. | FAR Part: 121 SCHEDULED |
| Surface Type: ASPHALT | | Rwy Status: ICE COVERED SNOW-COMPACTED SLUSH | Operator Surface Character: | |
| Category: VEER | | Phase: LND | XDistance: 83300 | YDistance: D R 80 |
| 01/11/83 | DETROIT, MI | Arpt Name: DETROIT METRO (DTW) | Owner Name: UNITED AIRLINES | Acft Mfr: MCDONNELL-DOUGLAS/DC-8-54F |
| Rwy ID: 21 R | Lgth: 10501 | Wid: 200 | Operator Name/DBA: | FAR Part: 121 SCHEDULED |
| Surface Type: CONCRETE | | Rwy Status: DRY | Rwy Surface Character: FULLY GROOVED | |
| Category: OTHER | | Phase: T/O | XDistance: 8800 | YDistance: R1200 |
| 02/07/83 | GREER, SC | Arpt Name: GREENVILLE-SPARTANBURG (GSP) | Owner Name: EASTERN AIRLINES | Acft Mfr: MCDONNELL-DOUGLAS/DC-9-50 |
| Rwy ID: 3 | Lgth: 7600 | Wid: 150 | Operator Name/DBA: | FAR Part: 121 SCHEDULED |
| Surface Type: CONCRETE | | Rwy Status: DRY | Rwy Surface Character: | |
| Category: L OFF | | Phase: LND | XDistance: 1830 | YDistance: R 110 |
| 02/09/83 | KUIGILLINGOK, AK | Arpt Name: KUIGILLINGOK (AK8) | Owner Name: BETHEL VENTURES D/B/A | Acft Mfr: CESSNA/207A |
| Rwy ID: 15 | Lgth: 2300 | Wid: 35 | Operator Name/DBA: | FAR Part: 135 SCHEDULED |
| Surface Type: GRAVEL | | Rwy Status: SNOW-DRY | Rwy Surface Character: | |
| Category: VEER | | Phase: T/O | XDistance: UNK | YDistance: UNK |
| 02/15/83 | HAILEY, ID | Arpt Name: FRIEDMAN MEMORIAL () | Owner Name: SIERRA PACIFIC AIRLINES | Acft Mfr: DEHAVILLAND/DHC-6-300 |
| Rwy ID: 31 | Lgth: 6600 | Wid: 100 | Operator Name/DBA: | FAR Part: 135 SCHEDULED |
| Surface Type: | | Rwy Status: | Rwy Surface Character: | |
| Category: OTHER | | Phase: LND | XDistance: *1.7M SE APT | YDistance: |
| 06/29/83 | KAWULUI, HI | Arpt Name: KAWULUI (OGG) | Owner Name: PACIFIC AIR EXPRESS | Acft Mfr: DOUGLAS/DC-4-C358 |
| Rwy ID: | | Wid: | Operator Name/DBA: | FAR Part: 121 SCHEDULED |
| Surface Type: | | Rwy Status: | Rwy Surface Character: | |
| Category: OTHER | | Phase: LND | XDistance: 6120 | YDistance: R5280 |
| 07/26/83 | RICHMOND, VA | Arpt Name: BYRD INTERNATIONAL (RIC) | Owner Name: SILVER KRIS SERVICES LTD. | Acft Mfr: PIPER/PA-31-350 |
| Rwy ID: 33 | Lgth: 8999 | Wid: 150 | Operator Name/DBA: | FAR Part: 135 SCHEDULED |
| Surface Type: ASPHALT | | Rwy Status: DRY | Rwy Surface Character: | |
| Category: OTHER | | Phase: LND | XDistance: *1M SSE APT | YDistance: |
| 09/08/83 | KAILUA-KONA, HI | Arpt Name: KEAHOLE (KOA) | Owner Name: AIRTOUR ACQUISITION CORP. | Acft Mfr: BEECH/N18S |
| Rwy ID: | | Wid: | Operator Name/DBA: PANORAMA AIRTOUR | FAR Part: 135 SCHEDULED |
| Surface Type: | | Rwy Status: | Rwy Surface Character: | |
| Category: OTHER | | Phase: T/O | XDistance: *1M NW APT | YDistance: |

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| 10/06/83 | BURLINGTON, VT Rwy ID: 33 Lgth: 7870 Surface Type: ASPHALT Category: VEER | Arprt Name: BURLINGTON INTL (BTV) Wid: 150 Rwy Status: DRY Phase: LND | Owner Name: BEECH ACCEPTANCE CORP., INC. Operator Name/DBA: AIR VERMONT Rwy Surface Character: XDistance: A4000 | Acft Mfr: BEECH/C99 FAR Part: 135 SCHEDULED YDistance: UNK |
| 11/11/83 | MIAMI, FL Rwy ID: 9 R Lgth: 13002 Surface Type: ASPHALT Category: VEER | Arprt Name: MIAMI INTL (MIA) Wid: 150 Rwy Status: DRY Phase: LND | Owner Name: CONNECTICUT NATIONAL BANK Operator Name/DBA: EASTERN AIRLINES Rwy Surface Character: XDistance: 810502 | Acft Mfr: BOEING/727-225A FAR Part: 121 SCHEDULED YDistance: D R 175 |
| 12/19/83 | ROCK SPRINGS, WY Rwy ID: 27 Lgth: 10000 Surface Type: ASPHALT Category: VEER | Arprt Name: SWEETWATER COUNTY (RKS) Wid: 150 Rwy Status: SNOW-COMPACTED Phase: LND | Owner Name: COMBS AIRWAYS Operator Name/DBA: Rwy Surface Character: POROUS XDistance: B4700 | Acft Mfr: CONVAIR/440 FAR Part: 121 SCHEDULED YDistance: D L 100 |
| 12/20/83 | STOIX FALLS, SD Rwy ID: 3 Lgth: 8999 Surface Type: CONCRETE Category: VEER | Arprt Name: JOE FOSS FIELD (KF3) Wid: 150 Rwy Status: SNOW-DRY Phase: LND | Owner Name: OZARK AIR LINES, INC Operator Name/DBA: Rwy Surface Character: XDistance: B4125 | Acft Mfr: DOUGLAS/DC-9-31 FAR Part: 121 SCHEDULED YDistance: UNK |
| 12/23/83 | ANCHORAGE, AK Rwy ID: 24 R Lgth: 10600 Surface Type: ASPHALT Category: OVER | Arprt Name: ANCHORAGE INT'L. (ANC) Wid: 200 Rwy Status: ICE COVERED SNOW-COMPACTED Phase: T/O | Owner Name: KOREAN AIR LINES Operator Name/DBA: Rwy Surface Character: XDistance: 1434 | Acft Mfr: McDONNELL-DOUGLAS/DC-10-30CF FAR Part: 129 SCHEDULED YDistance: R 40 |
| 01/01/84 | EAST BOSTON, MA Rwy ID: 4 L Lgth: 7860 Surface Type: ASPHALT Category: VEER | Arprt Name: LOGAN INT'L (BOS) Wid: 150 Rwy Status: SNOW-DRY Phase: LND | Owner Name: AIRCRAFT MARKETING, INC. Operator Name/DBA: BLUE BELL, INC. Rwy Surface Character: XDistance: A4200 85200 | Acft Mfr: CANADAIK/CL4404 FAR Part: 121 NON-SCHEDULED YDistance: D R 900 |
| 01/13/84 | JAMAICA, NY Rwy ID: 4 L Lgth: 11351 Surface Type: ASPHALT Category: VEER | Arprt Name: KENNEDY (KJF) Wid: 150 Rwy Status: Phase: LND | Owner Name: PILGRIM AIRLINES Operator Name/DBA: Rwy Surface Character: XDistance: A6600 87200 | Acft Mfr: FOKKER/F27-100 FAR Part: 121 SCHEDULED YDistance: D R 179 |
| 01/14/84 | DURANGO, CO Rwy ID: 2 Lgth: 9200 Surface Type: ASPHALT Category: VEER | Arprt Name: LA PLATA COUNTY (DRO) Wid: 150 Rwy Status: ICE COVERED SNOW-DRY Phase: LND | Owner Name: COMMUTER AIRLINES OF CO. Operator Name/DBA: TRANS COLORADO AIRLINE Rwy Surface Character: XDistance: A170082300 | Acft Mfr: SWEARINGEN/SA227-AC FAR Part: 135 SCHEDULED YDistance: D L 85 |
| 01/23/84 | CHICAGO, IL Rwy ID: 9 L Lgth: 7416 Surface Type: ASPHALT Category: VEER | Arprt Name: O'HARE IAP (ORD) Wid: 150 Rwy Status: WET Phase: T/O | Owner Name: UNITED AIRLINES, INC. Operator Name/DBA: Rwy Surface Character: XDistance: B 400 | Acft Mfr: McDONNELL DOUGLAS/DC-8-61 FAR Part: 121 SCHEDULED YDistance: UNK |
| 02/15/84 | TULSA, OK Rwy ID: 17 L Lgth: 10000 Surface Type: ASPHALT Category: VEER | Arprt Name: TULSA INT'L (TUL) Wid: 200 Rwy Status: DRY Phase: LND | Owner Name: TRANSCENTRAL AIRLINE CORP. Operator Name/DBA: Rwy Surface Character: XDistance: A2800 | Acft Mfr: MINOM/YS-11 FAR Part: 121 SCHEDULED YDistance: D L 140 |

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| 02/28/84 | JAMAICA, NY | Arprt Name: JOHN F KENNEDY INTL (JFK) | Owner Name: DET NORSKE LUFFTARTSSLEKAB | Acft Mfr: MCDONNELL DOUGLAS/DC-10-30 |
| Rwy ID: 4 R | Lgth: 10000 | Wid: 150 | Operator Name/DBA: SCANDINAVIAN AIRLINES | FAR Part: 129 SCHEDULED |
| Surface Type: ASPHALT | | Rwy Status: WET | Rwy Surface Character: | |
| Category: OVER | | Phase: LND | XDistance: 560 | YDistance: 0 |
| 05/27/84 | HICKORY, NC | Arprt Name: HICKORY (HKY) | Owner Name: COASTAL STATES AVIATION INC. | Acft Mfr: CESSNA/402C |
| Rwy ID: 24 | Lgth: 6400 | Wid: 140 | Operator Name/DBA: SUNBIRD AIRLINES, INC. | FAR Part: 135 SCHEDULED |
| Surface Type: ASPHALT | | Rwy Status: WET | Rwy Surface Character: | |
| Category: OVER | | Phase: LND | XDistance: 240 | YDistance: UNK |
| 06/13/84 | DETROIT, MI | Arprt Name: DETROIT METRO (DTW) | Owner Name: US AIR, INC. | Acft Mfr: MCDONNELL DOUGLAS/DC-9-31 |
| Rwy ID: 21 R | Lgth: 10501 | Wid: 200 | Operator Name/DBA: | FAR Part: 121 SCHEDULED |
| Surface Type: CONCRETE | | Rwy Status: WET | Rwy Surface Character: ROUGH TEXTURE FULLY GROOVED | |
| Category: VEER | | Phase: LND | XDistance: 86300 | YDistance: D L 200 |
| 06/23/84 | CHICAGO, IL | Arprt Name: O'HARE INTL (ORD) | Owner Name: TRADEWINDS AIRWAYS LTD | Acft Mfr: BOEING/707-323C |
| Rwy ID: 22 R | Lgth: 7500 | Wid: 150 | Operator Name/DBA: | FAR Part: 129 SCHEDULED |
| Surface Type: CONCRETE | | Rwy Status: WET | Rwy Surface Character: | |
| Category: OVER | | Phase: LND | XDistance: 900 | YDistance: 0 |
| 06/29/84 | GRAND ISLAND, NE | Arprt Name: HALL COUNTY REGINAL (GRI) | Owner Name: UNITED BANK OF DENVER NAT'L | Acft Mfr: SWEARINGEN/SA227-AC |
| Rwy ID: 17 | Lgth: 7001 | Wid: 150 | Operator Name/DBA: PIONEER AIRWAYS, INC.(PTOA) | FAR Part: 135 SCHEDULED |
| Surface Type: ASPHALT | | Rwy Status: DRY | Rwy Surface Character: | |
| Category: VEER | | Phase: T/O | XDistance: UNK | YDistance: UNK |
| 07/03/84 | DENVER, CO | Arprt Name: STAPLETON INT'L (DEN) | Owner Name: AMERICAN AIRLINES, INC. | Acft Mfr: BOEING/727-23 |
| Rwy ID: 26 L | Lgth: 10010 | Wid: 150 | Operator Name/DBA: | FAR Part: 121 SCHEDULED |
| Surface Type: CONCRETE | | Rwy Status: DRY | Rwy Surface Character: FULLY GROOVED | |
| Category: VEER | | Phase: LND | XDistance: 88100 | YDistance: D L 105 |
| 07/21/84 | TAU, MANUA ISL, AS | Arprt Name: TAU (HI3) | Owner Name: SOUTH PACIFIC ISLAND | Acft Mfr: DEHAVILLAND/DHC-6-300 |
| Rwy ID: 36 | Lgth: 2170 | Wid: 100 | Operator Name/DBA: SOUTH PACIFIC ISLAND | FAR Part: 135 SCHEDULED |
| Surface Type: DIRT | | Rwy Status: DRY | Rwy Surface Character: | |
| Category: L OFF | | Phase: LND | XDistance: 500 | YDistance: L 85 |
| 08/02/84 | VIEQUES, PR | Arprt Name: VIEQUES (VQS) | Owner Name: VIEQUES AIR LINK, INC | Acft Mfr: BRITTEN NORMAN/BN-2A ISLANDER |
| Rwy ID: 9 | Lgth: 2500 | Wid: 75 | Operator Name/DBA: VIEQUES AIR LINK, INC. | FAR Part: 135 SCHEDULED |
| Surface Type: ASPHALT | | Rwy Status: DRY | Rwy Surface Character: | |
| Category: OTHER | | Phase: T/O | XDistance: UNK | YDistance: UNK |
| 09/07/84 | NAPLES, FL | Arprt Name: NAPLES MUNI (APF) | Owner Name: PROVINCETOWN-BOSTON AIRLINES | Acft Mfr: CESSNA/402C |
| Rwy ID: 4 | Lgth: 5000 | Wid: 150 | Operator Name/DBA: PROVINCETOWN-BOSTON AIRLINES | FAR Part: 135 SCHEDULED |
| Surface Type: ASPHALT | | Rwy Status: DRY | Rwy Surface Character: | |
| Category: OTHER | | Phase: T/O | XDistance: *3.5M NE APT | YDistance: |
| 09/24/84 | ATLANTA, GA | Arprt Name: HARTSFIELD AIRPORT (ATL) | Owner Name: HRS TEXTILES, INC. | Acft Mfr: PIPER/PA-3113 |
| Rwy ID: 8 | Lgth: 10000 | Wid: 150 | Operator Name/DBA: PEE DEE AIR EXPRESS, INC | FAR Part: 135 SCHEDULED |
| Surface Type: CONCRETE | | Rwy Status: DRY | Rwy Surface Character: | |
| Category: UNDER | | Phase: LND | XDistance: 1500 | YDistance: L 379 |

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| 09/29/84 | HOUSTON, TX | Arprt Name: HOUSTON INTERNATIONAL (IAH) | Owner Name: METROFLIGHT INC. | Acft Mfr: DEHAVILLAND/DHC-6-300 |
| Rwy ID: 14 R | Lgth: 6048 | Wid: 100 | Operator Name/DBA: METROFLIGHT, INC. | FAR Part: 135 SCHEDULED |
| Surface Type: CONCRETE | | Rwy Status: DRY | Rwy Surface Character: | YDistance: L UNK |
| Category: VEER | | Phase: LND | XDistance: UNK | |
| 10/14/84 | ERIE, PA | Arprt Name: ERIE INT'L (ERI) | Owner Name: US AIR | Acft Mfr: McDONNELL-DOUGLAS/DC-9-30 |
| Rwy ID: 24 | Lgth: 6500 | Wid: 150 | Operator Name/DBA: | FAR Part: 121 SCHEDULED |
| Surface Type: ASPHALT | | Rwy Status: DRY | Rwy Surface Character: ROUGH TEXTURE | YDistance: R 81 |
| Category: L OFF | | Phase: LND | XDistance: 5200 | |
| 10/18/84 | SEDONA, AZ | Arprt Name: SEDONA (SEZ) | Owner Name: ELLIS F. GARDNER | Acft Mfr: CESSNA/T207A |
| Rwy ID: | | Wid: | Operator Name/DBA: SEDONA AIR CENTER | FAR Part: 135 SCHEDULED |
| Surface Type: | | Rwy Status: | Rwy Surface Character: SMOOTH | YDistance: |
| Category: OTHER | | Phase: LND | XDistance: *.5M S APT | |
| 11/29/84 | PULLMAN, WA | Arprt Name: PULLMAN-MOSCOW (PUW) | Owner Name: HOUSTON ACFT LEASING | Acft Mfr: FAIRCHILD-SWEARINGEN/SA 227 |
| Rwy ID: 23 | Lgth: 6731 | Wid: 100 | Operator Name/DBA: CASCADE AIRWAYS, INC. | FAR Part: 121 SCHEDULED |
| Surface Type: ASPHALT | | Rwy Status: SNOW-WET | Rwy Surface Character: SMOOTH | YDistance: E R 60 |
| Category: VEER | | Phase: LND | XDistance: A2335 C3600 | |
| 12/06/84 | JACKSONVILLE, FL | Arprt Name: JACKSONVILLE INT'L (JAX) | Owner Name: PROVINCETOWN-BOSTON AIRLINES | Acft Mfr: EMBRAER BANDEIRANTE/EMB-110P1 |
| Rwy ID: 31 | Lgth: 7700 | Wid: 150 | Operator Name/DBA: PROVINCETOWN-BOSTON AIRLINES | FAR Part: 135 SCHEDULED |
| Surface Type: ASPHALT | | Rwy Status: DRY | Rwy Surface Character: | YDistance: R 85 |
| Category: OTHER | | Phase: T/O | XDistance: 7800 | |
| 12/12/84 | MIAMI, FL | Arprt Name: MIAMI INTERNATIONAL (MFI) | Owner Name: VINCENT J. FINAZZO | Acft Mfr: PIPER/PA-31-350 |
| Rwy ID: 12 | Lgth: 9600 | Wid: 150 | Operator Name/DBA: SOUTHERN EXPRESS AIRWAYS, INC. | FAR Part: 135 SCHEDULED |
| Surface Type: ASPHALT | | Rwy Status: DRY | Rwy Surface Character: | YDistance: |
| Category: OTHER | | Phase: LND | XDistance: *.5M | |
| 12/16/84 | JASPER, AL | Arprt Name: WALKER COUNTY (LO2) | Owner Name: FLIGHT TRAILS | Acft Mfr: CONVAIR/440 |
| Rwy ID: 27 | Lgth: 4800 | Wid: 100 | Operator Name/DBA: FLIGHT TRAILS | FAR Part: 121 NON-SCHEDULED |
| Surface Type: MACADAM | | Rwy Status: DRY | Rwy Surface Character: | YDistance: D R 50 |
| Category: VEER | | Phase: LND | XDistance: A1000 B3000 | |
| 12/17/84 | POINT HOPE, AK | Arprt Name: POINT HOPE (PHO) | Owner Name: BAKER AVIATION, INC | Acft Mfr: CESSNA/U206 |
| Rwy ID: 19 | Lgth: 4000 | Wid: 100 | Operator Name/DBA: BAKER AVIATION, INC. | FAR Part: 135 SCHEDULED |
| Surface Type: GRAVEL | | Rwy Status: SNOW-DRY | Rwy Surface Character: | YDistance: D L 60 |
| Category: VEER | | Phase: T/O | XDistance: A3660 B3900 | |
| 12/17/84 | BAIRNBRIDGE, NY | Arprt Name: SIDNEY (N23) | Owner Name: FORD-AIRE, INC. | Acft Mfr: PIPER/PA-23-250 |
| Rwy ID: 7 | Lgth: 4220 | Wid: 75 | Operator Name/DBA: SUSQUEHANNA AIRLINES, INC. | FAR Part: 135 SCHEDULED |
| Surface Type: ASPHALT | | Rwy Status: DRY | Rwy Surface Character: | YDistance: |
| Category: OTHER | | Phase: LND | XDistance: *.85M W APT | |
| 01/21/85 | RENO, NV | Arprt Name: RENO CANNON INTL (RNO) | Owner Name: CONSOLIDATED CARRIER INT'L | Acft Mfr: LOCKHEED/188C |
| Rwy ID: 16 R | Lgth: 9000 | Wid: 150 | Operator Name/DBA: GALAXY AIRLINES, INC. | FAR Part: 121 NON-SCHEDULED |
| Surface Type: CONCRETE | | Rwy Status: DRY | Rwy Surface Character: | YDistance: R3960 |
| Category: OTHER | | Phase: T/O | XDistance: 7920 | |

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| 01/29/85 | DOBBINS AFB, GA Rwy ID: 29 Lgth: 10000 Surface Type: CONCRETE Category: VEER | Arprt Name: DOBBINS AFB (MGE) Wid: 300 Rwy Status: DRY Phase: LND | Owner Name: TRANSAMERICA AIRLINES, INC. Operator Name/DBA: GALAXY AIR LINES, INC. Rwy Surface Character: ROUGH TEXTURE XDistance: A4200 B4200 | Acft Mfr: LOCKHEED/188C FAR Part: 121 SCHEDULED YDistance: D R 220 |
| 01/31/85 | LONDON, KY Rwy ID: 5 Lgth: 6000 Surface Type: ASPHALT Category: OVER | Arprt Name: LONDON-CORBIN (LOZ) Wid: 150 Rwy Status: WET Phase: LND | Owner Name: UNITED PARCEL SERVICE CO. Operator Name/DBA: SAT-AIR, INC. Rwy Surface Character: XDistance: 260 | Acft Mfr: SHEARINGEN/SA-227 FAR Part: 135 SCHEDULED YDistance: 0 |
| 02/04/85 | SOLDOTNA, AK Rwy ID: 25 Lgth: 4973 Surface Type: MACADAM Category: OTHER | Arprt Name: SOLDOTNA (SKQ) Wid: 130 Rwy Status: SNOW-COMPACTED Phase: LND | Owner Name: NORTH PACIFIC AIRLINES Operator Name/DBA: NORTH PACIFIC AIRLINES Rwy Surface Character: SMOOTH XDistance: *1.5M SE APT | Acft Mfr: BEECH/65-A80 FAR Part: 135 SCHEDULED YDistance: |
| 02/05/85 | PHILADELPHIA, PA Rwy ID: 9 L Lgth: 9500 Surface Type: CONCRETE Category: OTHER | Arprt Name: PHILADELPHIA INTL (PHL) Wid: 150 Rwy Status: SNOW-COMPACTED Phase: T/O | Owner Name: AIRBORNE EXPRESS, INC. Operator Name/DBA: Rwy Surface Character: XDistance: UNK | Acft Mfr: MCDONNELL-DOUGLAS/DC-9-15 FAR Part: 121 SCHEDULED YDistance: UNK |
| 02/05/85 | CHARLOTTE, NC Rwy ID: 18 L Lgth: 7845 Surface Type: CONCRETE Category: OVER | Arprt Name: CHARLOTTE/DOUGLAS (CLT) Wid: 150 Rwy Status: ICE COVERED Phase: LND | Owner Name: BO-S-AIRE AIRLINES, INC. Operator Name/DBA: BO-S-AIRE AIRLINES, INC. Rwy Surface Character: XDistance: 75 | Acft Mfr: DOUGLAS/DC-3 FAR Part: 121 SCHEDULED YDistance: 0 |
| 02/06/85 | ALTUS, OK Rwy ID: 17 Lgth: Surface Type: Category: OTHER | Arprt Name: ALTUS AFB (LTS) Wid: Rwy Status: DRY Phase: LND | Owner Name: ALTUS AIRLINE, INC Operator Name/DBA: ALTUS AIRLINE, INC. Rwy Surface Character: XDistance: *1.5 NNE | Acft Mfr: CESSNA/402B FAR Part: 135 SCHEDULED YDistance: |
| 02/10/85 | CHAMPAIGN, IL Rwy ID: 31 Lgth: 8100 Surface Type: CONCRETE Category: L OFF | Arprt Name: WILLARD (CMI) Wid: 150 Rwy Status: SNOW-DRY Phase: LND | Owner Name: Operator Name/DBA: OZARK AIR LINES, INC. Rwy Surface Character: XDistance: 900 | Acft Mfr: MCDONNELL DOUGLAS/DC-9 FAR Part: 121 SCHEDULED YDistance: L 91 |
| 03/08/85 | HAILEY, ID Rwy ID: 31 Lgth: 6600 Surface Type: ASPHALT Category: VEER | Arprt Name: FRIEDMAN MEMORIAL (SUN) Wid: 100 Rwy Status: DRY Phase: LND | Owner Name: GENERAL ELECTRIC CREDIT CORP Operator Name/DBA: HORIZON AIRLINES, INC. Rwy Surface Character: XDistance: A3500 | Acft Mfr: FAIRCHILD/SA-227AC FAR Part: 135 SCHEDULED YDistance: R UNK |
| 03/30/85 | FT. LAUDERDALE, FL Rwy ID: 9 Lgth: 5316 Surface Type: ASPHALT Category: VEER | Arprt Name: FT. LAUDERDALE INT'L (FLL) Wid: 100 Rwy Status: DRY Phase: LND | Owner Name: TRANS AIR, INC. Operator Name/DBA: TRANS AIR, INC. Rwy Surface Character: XDistance: UNK | Acft Mfr: CESSNA/402C FAR Part: 135 SCHEDULED YDistance: |
| 04/06/85 | NANTUCKET, MA Rwy ID: 24 Lgth: 6303 Surface Type: ASPHALT Category: OTHER | Arprt Name: NANTUCKET (ACK) Wid: 50 Rwy Status: WET Phase: LND | Owner Name: RICHARD K. & DAWN DERRIDINGER Operator Name/DBA: NANTUCKET AIRCRAFT MAIN., INC. Rwy Surface Character: XDistance: 3711 | Acft Mfr: PIPER/PA-31-310 FAR Part: 135 SCHEDULED YDistance: L 192 |

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| 04/28/85 | AMARILLO, TX Rwy ID: 4 Lgth: 13502 Surface Type: ASPHALT Category: VEEB | Arprt Name: AMARILLO INTL (AMA) Wid: 300 Rwy Status: WET RUBBER DEPOSITS Phase: LND | Owner Name: SOUTHWEST AIRLINES CO. Operator Name/DBA: Rwy Surface Character: XDistance: 87500 | Acft Mfr: BOEING/737-300 FAR Part: 121 SCHEDULED YDistance: L UNK |
| 05/06/85 | WEST PALM BCH, FL Rwy ID: 13 Lgth: 6930 Surface Type: ASPHALT Category: L OFF | Arprt Name: PALM BEACH INTL (PBI) Wid: 150 Rwy Status: DRY Phase: LND | Owner Name: INTERNATIONAL AIRCRAFT CORP. Operator Name/DBA: AIRSOUTH, INC. Rwy Surface Character: XDistance: 5900 | Acft Mfr: BEECH/E18S FAR Part: 135 SCHEDULED YDistance: R 600 |
| 05/17/85 | LATROBE, PA Rwy ID: 23 Lgth: 5501 Surface Type: ASPHALT Category: OTHER | Arprt Name: WESTMORELAND COUNTY (LBE) Wid: 100 Rwy Status: WET Phase: LND | Owner Name: CUMBERLAND AIRLINES Operator Name/DBA: CUMBERLAND AIRLINES Rwy Surface Character: XDistance: *3.8M SE APT | Acft Mfr: PIPER/PA-31-350 FAR Part: 135 SCHEDULED YDistance: |
| 05/31/85 | NASHVILLE, TN Rwy ID: 20 R Lgth: 7700 Surface Type: CONCRETE Category: OTHER | Arprt Name: NASHVILLE METRO (BNA) Wid: 150 Rwy Status: DRY Phase: T/O | Owner Name: TAG Operator Name/DBA: GENERAL AVIATION, INC. Rwy Surface Character: XDistance: 100 | Acft Mfr: GULFSTREAM/G-159 FAR Part: 121 SCHEDULED YDistance: L1720 |
| 06/19/85 | WEST TRENTON, NJ Rwy ID: 24 Lgth: 6006 Surface Type: CONCRETE Category: OTHER | Arprt Name: MERCER COUNTY (TTN) Wid: 150 Rwy Status: DRY Phase: T/O | Owner Name: PROVIDENCE AIRLINE CORP. Operator Name/DBA: Rwy Surface Character: XDistance: 5280 | Acft Mfr: GENERAL DYNAMICS/240-27 FAR Part: 121 NON-SCHEDULED YDistance: L2000 |
| 06/27/85 | SAN JUAN, PR Rwy ID: 8 Lgth: 10002 Surface Type: ASPHALT Category: OVER | Arprt Name: LUIS MUNOZ MARIN INT'L (SJV) Wid: 200 Rwy Status: DRY Phase: T/O | Owner Name: AMERICAN AIRLINES, INC. Operator Name/DBA: Rwy Surface Character: XDistance: 62 | Acft Mfr: MCDONNELL DOUGLAS/DC-10-10 FAR Part: 121 SCHEDULED YDistance: L 160 |
| 08/02/85 | DALLAS/FT WORT, TX Rwy ID: 17 L Lgth: 11388 Surface Type: CONCRETE Category: OTHER | Arprt Name: DALLAS/FORT WORTH INTL (DFW) Wid: 150 Rwy Status: WET Phase: LND | Owner Name: DELTA AIRLINES, INC. Operator Name/DBA: Rwy Surface Character: FULLY GROOVED XDistance: 6336 | Acft Mfr: LOCKHEED/L-1011-385-1 FAR Part: 121 SCHEDULED YDistance: L 360 |
| 08/07/85 | MOLINE, IL Rwy ID: 27 Lgth: 6507 Surface Type: ASPHALT Category: UNDER | Arprt Name: QUAD CITY (MLI) Wid: 150 Rwy Status: DRY Phase: LND | Owner Name: MIDWEST AVIATION CORP. Operator Name/DBA: Rwy Surface Character: XDistance: 1500 | Acft Mfr: CESSNA/402B FAR Part: 135 SCHEDULED YDistance: 0 |
| 08/25/85 | AUBURN, ME Rwy ID: 4 Lgth: 5000 Surface Type: ASPHALT Category: OTHER | Arprt Name: AUBURN-LEWISTON MUNI () Wid: 75 Rwy Status: WET Phase: LND | Owner Name: BAR HARBOR AIRLINES Operator Name/DBA: Rwy Surface Character: POROUS SMOOTH XDistance: 3246 | Acft Mfr: BEECH/99 FAR Part: 135 SCHEDULED YDistance: R 441 |
| 08/28/85 | GREEN BAY, WI Rwy ID: 36 Lgth: 6000 Surface Type: CONCRETE Category: OVER | Arprt Name: AUSTIN STRAUDEL FLD (GRB) Wid: 150 Rwy Status: WET Phase: LND | Owner Name: SEC. PACIFIC COM LEASING INC. Operator Name/DBA: AIR WISCONSIN Rwy Surface Character: XDistance: UNK | Acft Mfr: BRITISH AEROSPACE/BAC 1-11-20 FAR Part: 121 SCHEDULED YDistance: 0 |

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| 09/06/85 MILWAUKEE, WI Rwy ID: 19 R Lgth: 9690 Surface Type: ASPHALT Category: OTHER | Arprt Name: GENERAL MITCHELL FIELD (MKE) Wid: 200 Rwy Status: DRY Phase: T/O | Owner Name: MIDWEST EXPRESS AIRLINES, INC. Operator Name/DBA: Rwy Surface Character: SMOOTH FULLY GROOVED XDistance: 1320 | Acft Mfr: DOUGLAS/DC-9-14 FAR Part: 121 SCHEDULED YDistance: R1040 |
| 09/24/85 WASHINGTON**, DC Rwy ID: 36 Lgth: 6869 Surface Type: Category: OVER | Arprt Name: WASHINGTON NATIONAL (DCA) Wid: 150 Rwy Status: DRY Phase: T/O | Owner Name: Operator Name/DBA: EASTERN AIRLINES Rwy Surface Character: XDistance: 580 | Acft Mfr: BOEING/B-727 FAR Part: 121 YDistance: UNK |
| 09/25/85 UNALASKA, AK Rwy ID: 12 Lgth: 3900 Surface Type: GRAVEL Category: UNDER | Arprt Name: UNALASKA (DUT) Wid: 100 Rwy Status: WET Phase: LND | Owner Name: MARKAIR, INC. Operator Name/DBA: Rwy Surface Character: POROUS ROUGH TEXTURE XDistance: 72 | Acft Mfr: BOEING/737-2X6C FAR Part: 121 SCHEDULED YDistance: 0 |
| 11/01/85 BETHEL, AK Rwy ID: 18 Lgth: 6399 Surface Type: ASPHALT Category: OTHER | Arprt Name: BETHEL (BET) Wid: 150 Rwy Status: DRY Phase: T/O | Owner Name: HERMENS AIR, INC. Operator Name/DBA: HERMENS AIR, INC. Rwy Surface Character: XDistance: 931 | Acft Mfr: CESSNA/208 FAR Part: 135 SCHEDULED YDistance: R1993 |
| 12/15/85 NAPASKIAK, AK Rwy ID: 19 Lgth: 2400 Surface Type: SNOW Category: UNDER | Arprt Name: NAPASKIAK (PKA) Wid: 45 Rwy Status: SNOW-DRY SNOW-COMPACTED Phase: LND | Owner Name: RYAN AIR SERVICE Operator Name/DBA: RYAN AIR SERVICE Rwy Surface Character: ROUGH TEXTURE XDistance: 256 | Acft Mfr: CESSNA/C-207 FAR Part: 135 SCHEDULED YDistance: L 45 |
| 12/20/85 CLEVELAND, OH Rwy ID: 28 Lgth: 6015 Surface Type: ASPHALT Category: VEER | Arprt Name: CLEVELAND-HOPKINS (CLE) Wid: 150 Rwy Status: WET SNOW-COMPACTED Phase: LND | Owner Name: Operator Name/DBA: BRITT AIRWAYS Rwy Surface Character: XDistance: A2950 C4825 | Acft Mfr: FAIRCHILD/SA226TC FAR Part: 135 SCHEDULED YDistance: E L 85 |
| 01/02/86 DETROIT, MI Rwy ID: 21 C Lgth: 8500 Surface Type: ASPHALT Category: OVER | Arprt Name: DETROIT METROPOLITAN (DTW) Wid: 200 Rwy Status: ICE COVERED SNOW-COMPACTED Phase: LND | Owner Name: WILMINGTON TRUST COMPANY TRUS Operator Name/DBA: AMERICAN AIRLINE, INC. Rwy Surface Character: FULLY GROOVED XDistance: 449 | Acft Mfr: MCDONNELL DOUGLAS/DC-10-10 FAR Part: 121 SCHEDULED YDistance: L 40 |
| 02/07/86 MEKORYUK, AK Rwy ID: 23 Lgth: 3500 Surface Type: GRAVEL Category: VEER | Arprt Name: MEKORYUK (MYU) Wid: 50 Rwy Status: ICE COVERED SNOW-DRY Phase: LND | Owner Name: Operator Name/DBA: ERA HELICOPTERS, INC. Rwy Surface Character: ROUGH TEXTURE XDistance: A1000 B1000 | Acft Mfr: DEHAVILLAND/DHC-6 FAR Part: 135 SCHEDULED YDistance: UNK |
| 02/08/86 HARLINGEN, TX Rwy ID: 17 R Lgth: 8300 Surface Type: CONCRETE Category: UNDER | Arprt Name: RIO GRANDE VALLEY (HRL) Wid: 150 Rwy Status: DRY Phase: LND | Owner Name: AMERICAN AIRLINES, INC. Operator Name/DBA: Rwy Surface Character: FULLY GROOVED XDistance: 440 | Acft Mfr: BOEING/727-223 FAR Part: 121 SCHEDULED YDistance: 0 |
| 02/21/86 ERIE, PA Rwy ID: 24 Lgth: 6000 Surface Type: ASPHALT Category: OVER | Arprt Name: ERIE INTL (KER) Wid: 150 Rwy Status: SNOW-WET Phase: LND | Owner Name: US AIR, INC. Operator Name/DBA: US AIR, INC. Rwy Surface Character: FULLY GROOVED XDistance: 180 | Acft Mfr: MCDONNELL-DOUGLAS/DC-9-31 FAR Part: 121 SCHEDULED YDistance: L 86 |

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| 03/13/86 | CHARLESTON, SC | Acft Mfr: MCDONNELL DOUGLAS/DC-9-31 FAR Part: 121 SCHEDULED YDistance: R 268 |
| 03/13/86 | ALPENA, MI | Acft Mfr: EMBRAER/EMB-110P1 FAR Part: 135 SCHEDULED YDistance: L 300 |
| 05/16/86 | LARAMIE, WY | Acft Mfr: BEECH/BE-99C FAR Part: 135 SCHEDULED YDistance: D L 244 |
| 05/20/86 | HUTCHINSON, KS | Acft Mfr: SWEARINGEN/SA226 FAR Part: 135 SCHEDULED YDistance: D L 50 |
| 09/09/86 | BINGHAMTON, NY | Acft Mfr: PIPER/PA-60-600 FAR Part: 135 SCHEDULED YDistance: UNK |
| 10/04/86 | KELLY AFB, TX | Acft Mfr: LOCCHEED/382G FAR Part: 121 NON-SCHEDULED YDistance: L1599 |
| 10/25/86 | CHARLOTTE, NC | Acft Mfr: BOEING/737-222 FAR Part: 121 SCHEDULED YDistance: 0 |
| 11/29/86 | SAN JUAN, PR | Acft Mfr: DEHAVILLAND/DHC-6 FAR Part: 135 SCHEDULED YDistance: D L 350 |
| 12/01/86 | MADISON, WI | Acft Mfr: DOUGLAS/DC9-51 FAR Part: 121 SCHEDULED YDistance: E L 95 |
| 01/10/87 | YUMA, AZ | Acft Mfr: SWEARINGEN/SA227-AC FAR Part: 135 SCHEDULED YDistance: L UNK |
| 03/13/86 | CHARLESTON AFB/INTL. (CHS) | Owner Name: EASTERN AIR LINES Operator Name/DBA: Rwy Surface Character: XDistance: 369 |
| 03/13/86 | PHELPS-COLLINS (APN) | Owner Name: TITAN PARTNERS Operator Name/DBA: SIMMONS AIRLINES Rwy Surface Character: ROUGH TEXTURE XDistance: 7920 |
| 05/16/86 | GENERAL BREES FIELD ARPT (LAR) | Owner Name: BEECHCRAFT ACCEPT. CORP. INC. Operator Name/DBA: CENTENNIAL AIRLINES, INC Rwy Surface Character: POROUS XDistance: A 800 B1800 |
| 05/20/86 | HUTCHINSON (HUT) | Owner Name: AIR MIDWEST, INC. Operator Name/DBA: Rwy Surface Character: ROUGH TEXTURE XDistance: A1500 B1525 |
| 09/09/86 | EDWIN A. LINK FIELD (BGM) | Owner Name: MASTERS & SUMPTER Operator Name/DBA: AIR CONTINENTAL, INC. Rwy Surface Character: XDistance: UNK |
| 10/04/86 | KELLY AFB (KSK) | Owner Name: TRANSAMERICA Operator Name/DBA: SOUTHERN AIR TRANSPORT Rwy Surface Character: XDistance: 7357 |
| 10/25/86 | CHARLOTTE DOUGLAS INTL () | Owner Name: Operator Name/DBA: PIEDMONT AIRLINES Rwy Surface Character: FULLY GROOVED XDistance: 445 |
| 11/29/86 | LUIS MUNIZMARTIN INT'L (SJU) | Owner Name: METRO FLIGHT INC. Operator Name/DBA: EASTERN METRO EXPRESS Rwy Surface Character: XDistance: 81000 |
| 12/01/86 | MADISON/DANE CNTY. (MSN) | Owner Name: NORTHWEST AIRLINES Operator Name/DBA: Rwy Surface Character: XDistance: A3100 C4600 |
| 01/10/87 | YUMA INT'L (YUM) | Owner Name: GENERAL ELECTRIC CREDIT CORP. Operator Name/DBA: SKY WEST AIRLINES Rwy Surface Character: FULLY GROOVED XDistance: UNK |

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| 02/11/87 | ONEONTA, NY Rwy ID: 24 Lgth: 3400 Surface Type: ASPHALT Category: UNDER | Arprt Name: ONEONTA MUNICIPAL (N66) Wid: 75 Rwy Status: DRY Phase: LND | Owner Name: CATSKILL AIRWAYS, INC. Operator Name/DBA: CATSKILL AIRWAYS, INC. Rwy Surface Character: SMOOTH XDistance: 10 | Acft Mfr: BEECHCRAFT/99 FAR Part: 135 SCHEDULED YDistance: 0 |
| 02/25/87 | DURANGO, CO Rwy ID: 2 Lgth: 9200 Surface Type: ASPHALT Category: VEER | Arprt Name: DURANGO-LA PLATA (DRO) Wid: 150 Rwy Status: SNOW-COMPACTED Phase: LND | Owner Name: AMERICA WEST AIRLINES, INC. Operator Name/DBA: Rwy Surface Character: XDistance: 83000 | Acft Mfr: BOEING/737-2A6 FAR Part: 121 SCHEDULED YDistance: D L 145 |
| 03/04/87 | MIAMI, FL Rwy ID: 9 R Lgth: 13000 Surface Type: ASPHALT Category: VEER | Arprt Name: MIAMI INT'L AIRPORT (MIA) Wid: 150 Rwy Status: DRY Phase: LND | Owner Name: AIR SOUTH AIRLINES Operator Name/DBA: Rwy Surface Character: XDistance: UNK | Acft Mfr: PIPER/PA-34-200 FAR Part: 135 SCHEDULED YDistance: D R 315 |
| 03/04/87 | DETROIT, MI Rwy ID: 21 R Lgth: 10501 Surface Type: Category: L OFF | Arprt Name: DETROIT METROPOLITAN (DTW) Wid: 200 Rwy Status: Phase: LND | Owner Name: Operator Name/DBA: FISHER BROTHERS AVIATION INC. Rwy Surface Character: XDistance: 1010 | Acft Mfr: CASA/C-212-CC FAR Part: 135 SCHEDULED YDistance: L 674 |
| 03/24/87 | DALLAS, TX Rwy ID: 35 L Lgth: 11368 Surface Type: CONCRETE Category: VEER | Arprt Name: DALLAS/FT. WORTH (DFW) Wid: 150 Rwy Status: WET Phase: T/O | Owner Name: METRO FLIGHT INC. Operator Name/DBA: Rwy Surface Character: XDistance: A1770 B2200 | Acft Mfr: CONVAIR/CV-580 FAR Part: 121 SCHEDULED YDistance: D L 300 |
| 04/01/87 | ANCHORAGE, AK Rwy ID: 24 Lgth: 4000 Surface Type: Category: OTHER | Arprt Name: MERRILL (MRI) Wid: 100 Rwy Status: Phase: LND | Owner Name: WILBUR'S FLIGHT OPERATIONS Operator Name/DBA: WILBUR'S INC. Rwy Surface Character: XDistance: 3932 | Acft Mfr: CESSNA/C-402 FAR Part: 135 SCHEDULED YDistance: R7639 |
| 04/12/87 | HYANNIS, MA Rwy ID: Surface Type: Category: OTHER | Arprt Name: () Wid: Rwy Status: Phase: LND | Owner Name: Operator Name/DBA: BOSTON/PROVINCETOWN AIRLINE Rwy Surface Character: XDistance: *.5M NE | Acft Mfr: CESSNA/402C FAR Part: 135 SCHEDULED YDistance: |
| 04/13/87 | KANSAS CITY, MO Rwy ID: Surface Type: Category: OTHER | Arprt Name: () Wid: Rwy Status: Phase: LND | Owner Name: Operator Name/DBA: BUFFALO AIRWAYS Rwy Surface Character: XDistance: *.3M SW APT | Acft Mfr: BOEING/707-351C FAR Part: 121 SCHEDULED YDistance: |
| 08/03/87 | DENVER, CO Rwy ID: 35 R Lgth: 12000 Surface Type: CONCRETE Category: OVER | Arprt Name: STAPLETON INT'L (DEN) Wid: 200 Rwy Status: DRY Phase: T/O | Owner Name: CONTINENTAL AIRLINES, INC. Operator Name/DBA: Rwy Surface Character: FULLY GROOVED XDistance: 418 | Acft Mfr: AIRBUS INDUSTRIES/A300B4-203 FAR Part: 121 SCHEDULED YDistance: 0 |
| 11/15/87 | DENVER, CO Rwy ID: Surface Type: Category: OTHER | Arprt Name: () Wid: Rwy Status: Phase: T/O | Owner Name: Operator Name/DBA: CONTINENTAL AIRLINES Rwy Surface Character: XDistance: 8257 | Acft Mfr: McDONNELL DOUGLAS/DC-9-10 FAR Part: 121 SCHEDULED YDistance: R 130 |

Appendix 2. CHRONOLOGICAL LISTING OF ACCIDENTS/INCIDENTS

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|----------|--|--|---|--|
| 11/17/87 | PORT ANGELES, WA Rwy ID: 26 Lgth: 5180 Surface Type: ASPHALT Category: VEER | Arprt Name: WILLIAM FAIRCHILD INT'L (CLM) Wid: 160 Rwy Status: DRY Phase: LND | Owner Name: BEECH ACCEPTANCE CORP., INC. Operator Name/DBA: SAN JUAN AIRLINES Rwy Surface Character: XDistance: UNK | Acft Mfr: BEECH/99-A FAR Part: 135 SCHEDULED YDdistance: L UNK |
| 11/18/87 | ATMAUTLUAK, AK Rwy ID: 15 Lgth: 2000 Surface Type: ICE Category: OVER | Arprt Name: ATMAUTLUAK (OBA) Wid: 80 Rwy Status: DRY Phase: LND | Owner Name: WILFRED RYAN Operator Name/DBA: RYAN AIR SERVICE, INC. Rwy Surface Character: XDistance: 110 | Acft Mfr: CESSNA/208 FAR Part: 135 SCHEDULED YDdistance: L 50 |
| 12/06/87 | ATMAUTLUAK, AK Rwy ID: 33 Lgth: 2000 Surface Type: SNOW Category: L OFF | Arprt Name: ATMAUTLUAK (OBA) Wid: Rwy Status: SNOW-DRY Phase: LND | Owner Name: RYAN AIR SERVICE INC. Operator Name/DBA: RYAN AIR SERVICE, INC. Rwy Surface Character: XDistance: UNK | Acft Mfr: CESSNA/207A FAR Part: 135 SCHEDULED YDdistance: UNK |
| 12/15/87 | POCATELLO**, ID Rwy ID: 3 Lgth: 9056 Surface Type: Category: VEER | Arprt Name: POCATELLO MUNI (PIH) Wid: 150 Rwy Status: Phase: LND | Owner Name: Operator Name/DBA: SKYWEST AIRLINES Rwy Surface Character: XDistance: UNK | Acft Mfr: SHEARINGEN/SA-227SA FAR Part: 135 YDdistance: D L 175 |
| 12/17/87 | CHANTILLY, VA Rwy ID: Surface Type: Category: OTHER | Arprt Name: (Wid: Rwy Status: Phase: LND | Owner Name: Operator Name/DBA: AVAIR INCORPORATED Rwy Surface Character: XDistance: *2.4M S | Acft Mfr: SHEARINGEN/SA-226 FAR Part: 135 SCHEDULED YDdistance: |
| 12/27/87 | DENVER, CO Rwy ID: 35 R Lgth: 12000 Surface Type: CONCRETE Category: VEER | Arprt Name: STAPLETON (DEN) Wid: 200 Rwy Status: SNOW-DRY SNOW-COMPACTED Phase: LND | Owner Name: CONTINENTAL AIRLINES, INC. Operator Name/DBA: CONTINENTAL AIRLINES, INC. Rwy Surface Character: ROUGH TEXTURE XDistance: 87000 | Acft Mfr: MCDONNELL DOUGLAS/MD80 FAR Part: 121 SCHEDULED YDdistance: D L 130 |

04/27/78 CULEBRA IS, PR Arpt Name: CULEBRA () Owner Name:
 Rwy ID: Lgth: 2200 Wid: Operator Name/DBA: PERKOWEN AIR
 Surface Type: MACADAM Rwy Status: DRY Rwy Surface Character:
 Category: UNDER Phase: LND XD Distance: 600
 REMARKS: Visual meteorological conditions during daylight hours. No VASI. Investigator noted that it would be difficult to install a VASI because it would have to be offset due to curved approach through mountain pass. Aircraft encountered wind shear. Additional vertical guidance may have prevented this accident.

01/05/79 UMIAT, AK Arpt Name: INIGOK () Owner Name:
 Rwy ID: Lgth: 5000 Wid: Operator Name/DBA: GREAT NORTHERN AIRLINES
 Surface Type: MACADAM Rwy Status: SNOW-COVERED Rwy Surface Character:
 Category: UNDER Phase: LND XD Distance: 8
 REMARKS: YD Distance: L 70

02/15/79 MIAMI, FL Arpt Name: MIAMI INTL () Owner Name:
 Rwy ID: Lgth: 9601 Wid: Operator Name/DBA:
 Surface Type: CONCRETE Rwy Status: Rwy Surface Character:
 Category: UNDER Phase: LND XD Distance: 66
 REMARKS: Acft Mfr: BOEING/727
 FAR Part: 121
 YD Distance: 0

02/24/79 ONEONTA, NY Arpt Name: ONEONTA MUNICIPAL () Owner Name:
 Rwy ID: Lgth: 3400 Wid: Operator Name/DBA: CATSKILL AIRW
 Surface Type: MACADAM Rwy Status: UNK/MR Rwy Surface Character:
 Category: UNDER Phase: LND XD Distance: 400
 REMARKS: Instrument meteorological conditions. No VASI. Airframe icing. Doubtful that additional vertical guidance would have prevented this accident.

05/29/79 PHOENIX, AZ Arpt Name: SKY HARBOR INTL () Owner Name:
 Rwy ID: Lgth: 10300 Wid: Operator Name/DBA: COMBS AIRWAYS
 Surface Type: MACADAM Rwy Status: Rwy Surface Character:
 Category: UNDER Phase: LND XD Distance: 800
 REMARKS: Visual meteorological conditions at dusk. No VASI. Aircraft encountered wake turbulence which rocked wings causing interruption of fuel supply. Visual vertical guidance may have helped prevent these accidents.

07/25/80 PHILADELPHIA, PA Arpt Name: PHILADELPHIA INT () Owner Name:
 Rwy ID: Lgth: 9500 Wid: Operator Name/DBA: AIR PENNSYLV
 Surface Type: MACADAM Rwy Status: DRY Rwy Surface Character:
 Category: UNDER Phase: LND XD Distance: 300
 REMARKS: Visual meteorological conditions. No VASI. Aircraft encountered wake turbulence from 8-727 that preceded it. Visual vertical guidance may have helped prevent this accident.

08/24/80 KILLEEN, TX Arpt Name: KILLEEN MUNI () Owner Name:
 Rwy ID: Lgth: 4445 Wid: Operator Name/DBA: RIO AIRWAYS,
 Surface Type: MACADAM Rwy Status: DRY Rwy Surface Character:
 Category: UNDER Phase: LND XD Distance: 15
 REMARKS: Visual meteorological conditions during daylight hours. No VASI. Copilot misjudged distance, speed, and altitude. Visual vertical guidance may have helped prevent this accident.

Appendix 3. LISTING OF UNDERSHOOTS

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| | | | | |
|---------------------------|---|--------------------------------------|---|---------------------------------|
| 11/21/80 | YAP, WEST CARO IS, TO | Arpt Name: YAP () | Owner Name: | Acft Mfr: BOEING/727 |
| Rwy ID: | Lgth: 4820 | Wid: | Operator Name/DBA: CONTINENTAL AIRLINES | FAR Part: 121 |
| Surface Type: TWO OR MORE | Rwy Status: WET | Rwy Surface Character: | | |
| Category: UNDER | Phase: LND | XDistance: 13 | YDistance: 0 | |
| REMARKS: | | | | |
| 04/18/81 | SAND POINT, AK | Arpt Name: SAND POINT () | Owner Name: | Acft Mfr: NIMON/YS-11A |
| Rwy ID: | Lgth: 3800 | Wid: | Operator Name/DBA: REEVE ALEUTIAN AIRWAYS | FAR Part: 121 |
| Surface Type: GRAVEL | Rwy Status: DRY | Rwy Surface Character: | | |
| Category: UNDER | Phase: LND | XDistance: 10 | YDistance: 0 | |
| REMARKS: | | | | |
| 02/01/82 | GROTON, CT | Arpt Name: GROTON-NEW LONDON (GON) | Owner Name: PILGRIM AIRLINES | Acft Mfr: BEECH/99 |
| Rwy ID: 5 | Lgth: 5000 | Wid: 150 | Operator Name/DBA: PILGRIM AIRLINES | FAR Part: 135 SCHEDULED |
| Surface Type: ASPHALT | Rwy Status: WET | Rwy Surface Character: ROUGH TEXTURE | | |
| Category: UNDER | Phase: LND | XDistance: 850 | YDistance: 0 | |
| REMARKS: | Instrument meteorological conditions at night. Encountered windshear on ILS approach. Doubtful that additional vertical guidance would have prevented this accident. | | | |
| 05/16/82 | HOOPER BAY, AK | Arpt Name: HOOPER BAY (HPB) | Owner Name: GIFFORD AVIATION | Acft Mfr: DEHAVILLAND/DHC-6-200 |
| Rwy ID: 13 | Lgth: 3600 | Wid: . | Operator Name/DBA: | FAR Part: 135 SCHEDULED |
| Surface Type: | Rwy Status: | Rwy Surface Character: | | |
| Category: UNDER | Phase: LND | XDistance: 1300 | YDistance: 0 | |
| REMARKS: | Visual meteorological conditions during daylight hours. No VASI. Aircraft's center of gravity was substantially aft of its authorized limit. Additional vertical guidance would not have prevented this accident. | | | |
| 11/04/82 | NELSON LAGOON, AK | Arpt Name: NELSON LAGOON (Z73) | Owner Name: NORTHERN AIR CARGO, INC. | Acft Mfr: FAIRCHILD/C-82 |
| Rwy ID: 26 | Lgth: 3100 | Wid: 100 | Operator Name/DBA: | FAR Part: 121 NON-SCHEDULED |
| Surface Type: DIRT | Rwy Status: DRY | Rwy Surface Character: GROUND | | |
| Category: UNDER | Phase: LND | XDistance: 51 | YDistance: 0 | |
| REMARKS: | | | | |
| 09/24/84 | ATLANTA, GA | Arpt Name: HARTSFIELD AIRPORT (ATL) | Owner Name: HRS TEXTILES, INC. | Acft Mfr: PIPER/PA-31T3 |
| Rwy ID: 8 | Lgth: 10000 | Wid: 150 | Operator Name/DBA: PEE DEE AIR EXPRESS, INC | FAR Part: 135 SCHEDULED |
| Surface Type: CONCRETE | Rwy Status: DRY | Rwy Surface Character: | | |
| Category: UNDER | Phase: LND | XDistance: 1500 | YDistance: L 379 | |
| REMARKS: | Visual meteorological conditions. Aircraft on ILS approach. No VASI. Aircraft ran out of fuel. Additional vertical guidance would not have prevented this accident. | | | |
| 08/07/85 | MOLINE, IL | Arpt Name: QUAD CITY (MLI) | Owner Name: MIDWEST AVIATION CORP. | Acft Mfr: CESSNA/402B |
| Rwy ID: 27 | Lgth: 6507 | Wid: 150 | Operator Name/DBA: | FAR Part: 135 SCHEDULED |
| Surface Type: ASPHALT | Rwy Status: DRY | Rwy Surface Character: | | |
| Category: UNDER | Phase: LND | XDistance: 1500 | YDistance: 0 | |
| REMARKS: | Visual meteorological conditions. VASI available. Aircraft ran out of fuel. Additional vertical guidance would not have prevented this accident. | | | |

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| 09/25/85 | UNALASKA, AK | Arpt Name: UNALASKA (DUT) | Owner Name: MARKAIR, INC. | Acft Mfr: BOEING/737-2X6C |
| Rwy ID: 12 | Lgth: 3900 | Wid: 100 | Operator Name/DBA: | FAR Part: 121 SCHEDULED |
| Surface Type: GRAVEL | Rwy Status: WET | Phase: LND | Rwy Surface Character: POROUS ROUGH TEXTURE | YDistance: 0 |
| Category: UNDER | | | XDistance: 72 | |
| REMARKS: | | | | |
| 12/15/85 | NAPASKIAK, AK | Arpt Name: NAPASKIAK (PKA) | Owner Name: RYAN AIR SERVICE | Acft Mfr: CESSNA/C-207 |
| Rwy ID: 19 | Lgth: 2400 | Wid: 45 | Operator Name/DBA: RYAN AIR SERVICE | FAR Part: 135 SCHEDULED |
| Surface Type: SNOW | Rwy Status: SNOW-DRY SNOW-COMPACTED | | Rwy Surface Character: ROUGH TEXTURE | |
| Category: UNDER | Phase: LND | XDistance: 256 | YDistance: L 45 | |
| REMARKS: | Instrument meteorological conditions. Aircraft on VFR flight plan. No runway lights or VASI. Ice on windshield. Doubtful that additional vertical guidance would have prevented this accident. | | | |
| 02/08/86 | HARLINGEN, TX | Arpt Name: RIO GRANDE VALLEY (HRL) | Owner Name: AMERICAN AIRLINES, INC. | Acft Mfr: BOEING/727-223 |
| Rwy ID: 17 R | Lgth: 8300 | Wid: 150 | Operator Name/DBA: | FAR Part: 121 SCHEDULED |
| Surface Type: CONCRETE | Rwy Status: DRY | Phase: LND | Rwy Surface Character: FULLY GROOVED | YDistance: 0 |
| Category: UNDER | | | XDistance: 440 | |
| REMARKS: | | | | |
| 02/11/87 | ONEONTA, NY | Arpt Name: ONEONTA MUNICIPAL (N66) | Owner Name: CATSKILL AIRWAYS, INC. | Acft Mfr: BEECHCRAFT/99 |
| Rwy ID: 24 | Lgth: 3400 | Wid: 75 | Operator Name/DBA: CATSKILL AIRWAYS, INC. | FAR Part: 135 SCHEDULED |
| Surface Type: ASPHALT | Rwy Status: DRY | | Rwy Surface Character: SMOOTH | YDistance: 0 |
| Category: UNDER | Phase: LND | XDistance: 10 | | |
| REMARKS: | Visual meteorological conditions. VASI available but not used. Pilot misjudged altitude, distance, and airspeed. Additional vertical guidance would not have prevented this accident. | | | |

Appendix 4. LISTING OF LANDING OFF THE RUNWAY

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| 12/07/78 | ROCKFORD, IL | Arpt Name: GREATER ROCKFORD () | Owner Name: Operator Name/DBA: INTERMNL AVI | Acft Mfr: CESSNA/401A FAR Part: 135 |
| Rwy ID: 36 | Lgth: 8198 | Wid: | | |
| Surface Type: MACADAM | Rwy Surface Character: | Rwy Status: DRY | | |
| Category: L OFF | Phase: LND | XDistance: 837 | YDistance: R 325 | |
| REMARKS: X AND Y DISTANCES ARE TO THE AIRCRAFT'S STOPPING POINT. INSTRUMENT METEOROLOGICAL CONDITIONS. IMPROPER PREFLIGHT. | | | | |
| 05/29/82 | DETROIT, MI | Arpt Name: DETROIT METROPOLITAN (DTW) | Owner Name: PROVIDENCE AIRLINES CORPORATION | Acft Mfr: CONVAIR/240 FAR Part: 121 SCHEDULED |
| Rwy ID: 27 | Lgth: 8700 | Wid: 150 | Operator Name/DBA: | |
| Surface Type: ASPHALT | Rwy Surface Character: SMOOTH TEXTURE | Rwy Status: MET | | |
| Category: L OFF | Phase: LND | XDistance: UNK | YDistance: UNK | |
| REMARKS: INSTRUMENT METEOROLOGICAL CONDITIONS. IMPROPER RAISING OF FLAPS. | | | | |
| 08/12/82 | NORTH PLATTE, NE | Arpt Name: LEE BIRD FIELD (LBF) | Owner Name: FRONTIER AIRLINES | Acft Mfr: BOEING/737-291 FAR Part: 121 SCHEDULED |
| Rwy ID: 30 | Lgth: 8000 | Wid: 150 | Operator Name/DBA: | |
| Surface Type: CONCRETE | Rwy Surface Character: FULLY GROOVED | Rwy Status: MET | | |
| Category: L OFF | Phase: LND | XDistance: 2230 | YDistance: R 100 | |
| REMARKS: X DISTANCE IS TO TOUCHDOWN. Y DISTANCE IS GREATEST DISTANCE THAT AIRCRAFT WAS FROM CENTERLINE. AIRCRAFT TOUCHED DOWN PARTIALLY OFF RUNWAY, LEFT RUNWAY ENTIRELY, AND THEN RETURNED TO RUNWAY AT 3431' FROM THRESHOLD. INSTRUMENT METEOROLOGICAL CONDITIONS. IMPROPER INFLIGHT PLANNING AND PROCEDURES NOT FOLLOWED. | | | | |
| 02/07/83 | GREER, SC | Arpt Name: GREENVILLE-SPARTANBURG (GSP) | Owner Name: EASTERN AIRLINES | Acft Mfr: MCDONNELL-DOUGLAS/DC-9-50 FAR Part: 121 SCHEDULED |
| Rwy ID: 3 | Lgth: 7600 | Wid: 150 | Operator Name/DBA: | |
| Surface Type: CONCRETE | Rwy Surface Character: | Rwy Status: DRY | | |
| Category: L OFF | Phase: LND | XDistance: 1830 | YDistance: R 110 | |
| REMARKS: AIRCRAFT INITIALLY TOUCHED DOWN PARTIALLY ON RUNWAY 1300' FROM THRESHOLD BUT CONTINUED ROLLOUT UNTIL IT WAS ENTIRELY OFF RUNWAY. AIRCRAFT BECAME AIRBORNE AT 1800' FROM THRESHOLD AND CONTINUED TO CHARLOTTE, NC. FURTHEST DISTANCE FROM R/W CENTERLINE WAS CALCULATED TO BE 110'. INSTRUMENT METEOROLOGICAL CONDITIONS. MISSED APPROACH DELAYED. | | | | |
| 07/21/84 | TAU, MANUA ISL, AS | Arpt Name: TAU (H13) | Owner Name: SOUTH PACIFIC ISLAND | Acft Mfr: DEHAVILLAND/DHC-6-300 FAR Part: 135 SCHEDULED |
| Rwy ID: 36 | Lgth: 2170 | Wid: 100 | Operator Name/DBA: SOUTH PACIFIC ISLAND | |
| Surface Type: DIRT | Rwy Surface Character: | Rwy Status: DRY | | |
| Category: L OFF | Phase: LND | XDistance: 500 | YDistance: L 85 | |
| REMARKS: X AND Y DISTANCES ARE TO AIRCRAFT'S STOPPING POINT. VISUAL METEOROLOGICAL CONDITIONS. MECHANICAL FAILURE. | | | | |
| 10/14/84 | ERIE, PA | Arpt Name: ERIE INT'L (ERI) | Owner Name: US AIR | Acft Mfr: MCDONNELL-DOUGLAS/DC-9-30 FAR Part: 121 SCHEDULED |
| Rwy ID: 24 | Lgth: 6500 | Wid: 150 | Operator Name/DBA: | |
| Surface Type: ASPHALT | Rwy Surface Character: ROUGH TEXTURE | Rwy Status: DRY | | |
| Category: L OFF | Phase: LND | XDistance: 5200 | YDistance: R 81 | |
| REMARKS: X AND Y DISTANCES ARE TO THE AIRCRAFT'S STOPPING POINT. INSTRUMENT METEOROLOGICAL CONDITIONS. IFR PROCEDURE NOT FOLLOWED AND MISSED APPROACH NOT PERFORMED. | | | | |
| 02/10/85 | CHAMPAIGN, IL | Arpt Name: WILLARD (CHI) | Owner Name: | Acft Mfr: MCDONNELL DOUGLAS/DC-9 FAR Part: 121 SCHEDULED |
| Rwy ID: 31 | Lgth: 8100 | Wid: 150 | Operator Name/DBA: OZARK AIR LINES, INC. | |
| Surface Type: CONCRETE | Rwy Surface Character: | Rwy Status: SNOW-DRY | | |
| Category: L OFF | Phase: LND | XDistance: 900 | YDistance: L 91 | |
| REMARKS: X AND Y DISTANCES ARE TO THE TOUCHDOWN POINT. INSTRUMENT METEOROLOGICAL CONDITIONS. AIRCRAFT ATTEMPTING GO AROUND TOUCHED DOWN THEN BECAME AIRBORNE AGAIN AND CONTINUED TO STL. DELAYED DIRECTIONAL CONTROL AND IMPROPER USE OF PROCEDURE. | | | | |

05/06/85 WEST PALM BCH, FL Arpt Name: PALM BEACH INTL (PBI) Owner Name: INTERNATIONAL AIRCRAFT CORP. Acft Mfr: BEECH/E18S
 Rwy ID: 13 Lgth: 6930 Operator Name/DBA: AIRSOUTH, INC. FAR Part: 135 SCHEDULED
 Surface Type: ASPHALT Rwy Surface Character: Rwy Status: DRY
 Category: L OFF Phase: LND XDistance: 5900 YDistance: R 600
 REMARKS: X AND Y DISTANCES ARE TO AIRCRAFT'S STOPPING POINT. VISUAL METEOROLOGICAL CONDITIONS. WATER IN FUEL.

09/09/86 BINGHAMTON, NY Arpt Name: EDWIN A. LINK FIELD (BGM) Owner Name: MASTERS & SUMPTER Acft Mfr: PIPER/PA-60-600
 Rwy ID: Lgth: Operator Name/DBA: AIR CONTINENTAL, INC. FAR Part: 135 SCHEDULED
 Surface Type: GRASS/TURF Rwy Surface Character: Rwy Status: DRY
 Category: L OFF Phase: LND XDistance: UNK YDistance: UNK
 REMARKS: VISUAL METEOROLOGICAL CONDITIONS. ENGINE ASSEMBLY FAILURE.

03/06/87 DETROIT, MI Arpt Name: DETROIT METROPOLITAN (DTW) Owner Name: Acft Mfr: CASA/C-212-CC
 Rwy ID: 21 R Lgth: 10501 Operator Name/DBA: FISHER BROTHERS AVIATION INC. FAR Part: 135 SCHEDULED
 Surface Type: Rwy Surface Character: Rwy Status:
 Category: L OFF Phase: LND XDistance: 1010 YDistance: L 674
 REMARKS: X AND Y DISTANCE ARE TO AIRCRAFT'S TOUCHDOWN POINT. VISUAL METEOROLOGICAL CONDITIONS. INABILITY TO RECOVER FROM ASYMMETRIC POWER CONDITION AT LOWSPEED FOLLOWING INTENTIONAL USE OF BETA MODE OF PROPELLER OPERATION.

12/06/87 ATHAULTLUAK, AK Arpt Name: ATHAULTLUAK (DBA) Owner Name: RYAN AIR SERVICE INC. Acft Mfr: CESSNA/207A
 Rwy ID: 33 Lgth: 2000 Operator Name/DBA: RYAN AIR SERVICE, INC. FAR Part: 135 SCHEDULED
 Surface Type: SNOW Rwy Surface Character: Rwy Status: SNOW-DRY
 Category: L OFF Phase: LND XDistance: UNK YDistance: UNK
 REMARKS: PILOT LANDED ALONG THE SIDE OF RUNWAY TO AVOID SNOW REMOVAL EQUIPMENT ON THE RUNWAY.

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| 01/05/78 | LEADVILLE, CO | Acft Mfr: DEHAVND CA/DHC-6 FAR Part: 135 YDistance: D L 120 |
| Rwy ID: 34 | Lgth: 4800 | |
| Surface Type: MACADAM | | |
| Category: VEER | | |
| 01/17/78 | CLARKSBURG, WV | Acft Mfr: BEECH/899A FAR Part: 135 YDistance: UNK |
| Rwy ID: 3 | Lgth: 5200 | |
| Surface Type: MACADAM | | |
| Category: VEER | | |
| 02/13/78 | VICHY, MO | Acft Mfr: CESSNA/402 FAR Part: 135 YDistance: D L 85 |
| Rwy ID: 22 | Lgth: 5500 | |
| Surface Type: MACADAM | | |
| Category: VEER | | |
| 02/16/78 | HOOPER BAY, AK | Acft Mfr: CESSNA/4018 FAR Part: 135 YDistance: D L 60 |
| Rwy ID: 31 | Lgth: 4000 | |
| Surface Type: TWO OR MORE | | |
| Category: VEER | | |
| 02/16/78 | CHICAGO, IL | Acft Mfr: SWEARINGEN/SA226 FAR Part: 135 YDistance: D R 60 |
| Rwy ID: 36 | Lgth: 5341 | |
| Surface Type: CONCRETE | | |
| Category: VEER | | |
| 02/17/78 | MIDDLETOWN, PA | Acft Mfr: BEECH/E18S FAR Part: 135 YDistance: D L 170 |
| Rwy ID: 31 | Lgth: 9501 | |
| Surface Type: MACADAM | | |
| Category: VEER | | |
| 04/20/78 | CLEVELAND, OH | Acft Mfr: CONVAIR/580 FAR Part: 121 YDistance: D R 165 |
| Rwy ID: 28 R | Lgth: 6015 | |
| Surface Type: CONCRETE | | |
| Category: VEER | | |
| 05/11/78 | KEOKUK, IA | Acft Mfr: CESSNA/4028 FAR Part: 135 YDistance: L UNK |
| Rwy ID: 13 | Lgth: 3800 | |
| Surface Type: CONCRETE | | |
| Category: VEER | | |
| 05/23/78 | SYRACUSE, NY | Acft Mfr: BEECH/3NH FAR Part: 135 YDistance: R UNK |
| Rwy ID: 28 | Lgth: 9005 | |
| Surface Type: | | |
| Category: VEER | | |
| 08/08/78 | CHICAGO, IL | Acft Mfr: BEECH/D18S FAR Part: 135 YDistance: L UNK |
| Rwy ID: 14 L | Lgth: 10003 | |
| Surface Type: MACADAM | | |
| Category: VEER | | |

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| 08/10/78 | DOVER, DE | Arprt Name: DOVER AFB () | Owner Name: | Acft Mfr: LOCKHEED/L-382G |
| Rwy ID: 9600 | Wid: 75 | Rwy Status: DRY | Operator Name/DBA: TRANS INT AIR | FAR Part: 121 |
| Surface Type: MACADAM | Phase: LND | | Rwy Surface Character: | YDistance: UNK |
| Category: VEER | | | XDistance: UNK | |
| 08/11/78 | KNEELAND, CA | Arprt Name: KNEELAND () | Owner Name: | Acft Mfr: PIPER/PA-31 |
| Rwy ID: 33 | Wid: 75 | Rwy Status: DRY | Operator Name/DBA: EUREKA AERO I | FAR Part: 135 |
| Surface Type: MACADAM | Phase: LND | | Rwy Surface Character: | YDistance: R UNK |
| Category: VEER | | | XDistance: UNK | |
| 08/13/78 | AUSTIN, TX | Arprt Name: ROBERT MUELLER () | Owner Name: | Acft Mfr: SWEARINGEN/SA226 |
| Rwy ID: 12 R | Wid: 150 | Rwy Status: DRY | Operator Name/DBA: TEJAS AIRLINE | FAR Part: 135 |
| Surface Type: MACADAM | Phase: LND | | Rwy Surface Character: | YDistance: L UNK |
| Category: VEER | | | XDistance: A4100 B5000 | |
| 09/02/78 | OLD HARBOR, AK | Arprt Name: OLD HARBOR () | Owner Name: | Acft Mfr: GRUMMAN/G-21A |
| Rwy ID: 18 | Wid: 90 | Rwy Status: DRY | Operator Name/DBA: KODIAK WESTERN ALASKA AIRLINES | FAR Part: 121 |
| Surface Type: GRAVEL | Phase: T/O | | Rwy Surface Character: | YDistance: D L 60 |
| Category: VEER | | | XDistance: 81980 | |
| 11/17/78 | WINSTON-SALEM, NC | Arprt Name: SMITH-REYNOLDS () | Owner Name: | Acft Mfr: BOEING/727 |
| Rwy ID: 33 | Wid: 150 | Rwy Status: WET | Operator Name/DBA: PIEDMONT AVIATION | FAR Part: 121 |
| Surface Type: MACADAM | Phase: LND | | Rwy Surface Character: | YDistance: E R 85 |
| Category: VEER | | | XDistance: A1500 C3060 | |
| 11/29/78 | HOUSTON, TX | Arprt Name: INTERCONTINENTAL () | Owner Name: | Acft Mfr: DOUGLAS/DC-8-6 |
| Rwy ID: 8 | Wid: 150 | Rwy Status: DRY | Operator Name/DBA: FLYING TIGER | FAR Part: 121 |
| Surface Type: CONCRETE | Phase: LND | | Rwy Surface Character: | YDistance: E L 95 |
| Category: VEER | | | XDistance: UNK | |
| 12/18/78 | CLEVELAND, OH | Arprt Name: CLEVELAND HOPKIN () | Owner Name: | Acft Mfr: DEHAVILLAN/114-2X |
| Rwy ID: 36 L | Wid: 150 | Rwy Status: DRY | Operator Name/DBA: FISCHER BROS | FAR Part: 135 |
| Surface Type: MACADAM | Phase: LND | | Rwy Surface Character: | YDistance: UNK |
| Category: VEER | | | XDistance: UNK | |
| 01/1/79 | MISSOULA, MT | Arprt Name: MISSOULA COUNTY () | Owner Name: | Acft Mfr: HANDLY-PAG/HP-137 |
| Rwy ID: 29 | Wid: 150 | Rwy Status: SNOW-COVERED | Operator Name/DBA: BIG SKY AIRLI | FAR Part: 135 |
| Surface Type: MACADAM | Phase: T/O | | Rwy Surface Character: | YDistance: D L 135 |
| Category: VEER | | | XDistance: B4200 | |
| 01/15/79 | WISCONSIN RPDS, WI | Arprt Name: ALEXANDRIA FIELD () | Owner Name: | Acft Mfr: SWEARINGEN/SA-226 |
| Rwy ID: 20 | Wid: 75 | Rwy Status: SNOW-COVERED | Operator Name/DBA: MIDSTATE AIRL | FAR Part: 135 |
| Surface Type: MACADAM | Phase: LND | | Rwy Surface Character: | YDistance: D L 60 |
| Category: VEER | | | XDistance: A 230 B 700 | |
| 01/19/79 | GRAND RAPIDS, MI | Arprt Name: KENT COUNTY INTL () | Owner Name: | Acft Mfr: AEROSTAR/601 |
| Rwy ID: 26 L | Wid: 150 | Rwy Status: ICE COVERED | Operator Name/DBA: L.J.SIMMONS | FAR Part: 135 |
| Surface Type: MACADAM | Phase: LND | | Rwy Surface Character: | YDistance: D L 132 |
| Category: VEER | | | XDistance: B2300 | |

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| 01/24/79 | CHICAGO, IL Rwy ID: 27 L Lgth: 10140 Surface Type: CONCRETE Category: VEER | Arprt Name: CHICAGO-O'HARE () Wid: 150 Rwy Status: SHOW-COVERED Phase: LND | Owner Name: Operator Name/DBA: SHB STAGELINE Rwy Surface Character: XDistance: UNK | Acft Mfr: BEECH/B-18 FAR Part: 135 YDistance: L UNK |
| 01/27/79 | SPRINGFIELD, IL Rwy ID: 4 Lgth: 8000 Surface Type: CONCRETE Category: VEER | Arprt Name: CAPITAL () Wid: 150 Rwy Status: SHOW-COVERED Phase: T/O | Owner Name: Operator Name/DBA: GREAT WESTERN Rwy Surface Character: XDistance: UNK | Acft Mfr: BEECH/E18-S FAR Part: 135 YDistance: UNK |
| 01/31/79 | LACONIA, NH Rwy ID: 8 Lgth: 5505 Surface Type: Category: VEER | Arprt Name: LACONIA () Wid: 150 Rwy Status: SHOW Phase: LND | Owner Name: Operator Name/DBA: WINNIPESAUKEE Rwy Surface Character: XDistance: UNK | Acft Mfr: PIPER/PA-31 FAR Part: 135 YDistance: UNK |
| 02/07/79 | BOSTON, MA Rwy ID: 9 Lgth: 7000 Surface Type: MACADAM Category: VEER | Arprt Name: LOGAN INTL () Wid: 150 Rwy Status: Phase: T/O | Owner Name: Operator Name/DBA: MIDWEST AIR C Rwy Surface Character: XDistance: A1300 83375 | Acft Mfr: CESSNA/500 FAR Part: 135 YDistance: UNK |
| 02/15/79 | CHICAGO, IL Rwy ID: 9 R Lgth: 10140 Surface Type: Category: VEER | Arprt Name: O'HARE INTL () Wid: 150 Rwy Status: Phase: LND | Owner Name: Operator Name/DBA: Rwy Surface Character: XDistance: A4100 85425 | Acft Mfr: BOEING/747 FAR Part: 121 YDistance: D R 175 |
| 03/22/79 | ST LOUIS, MO Rwy ID: 12 R Lgth: 10018 Surface Type: CONCRETE Category: VEER | Arprt Name: LAMBERT-ST LOUIS () Wid: 200 Rwy Status: MET Phase: LND | Owner Name: Operator Name/DBA: EASTERN AIRLINES Rwy Surface Character: XDistance: A4000 86000 | Acft Mfr: DOUGLAS/DC-9 FAR Part: 121 YDistance: D L 125 |
| 04/17/79 | SAN FRANCISCO, CA Rwy ID: 28 L Lgth: 10600 Surface Type: Category: VEER | Arprt Name: SAN FRANCISCO IN () Wid: 200 Rwy Status: Phase: LND | Owner Name: Operator Name/DBA: YOSEMITE AIR Rwy Surface Character: XDistance: UNK | Acft Mfr: BEECH/65-A80 FAR Part: 135 YDistance: UNK |
| 06/09/79 | SAINT MARYS, AK Rwy ID: 16 Lgth: 6000 Surface Type: MACADAM Category: VEER | Arprt Name: ST MARYS () Wid: 150 Rwy Status: MET Phase: T/O | Owner Name: Operator Name/DBA: WESTERN YUKON Rwy Surface Character: XDistance: UNK | Acft Mfr: CESSNA/180 FAR Part: 135 YDistance: UNK |
| 06/11/79 | ST LOUIS, MO Rwy ID: 24 Lgth: 7602 Surface Type: CONCRETE Category: VEER | Arprt Name: LAMBERT () Wid: 150 Rwy Status: DRY Phase: LND | Owner Name: Operator Name/DBA: MIDWEST AIR C Rwy Surface Character: XDistance: A2800 | Acft Mfr: DEHAVILLAN/DH 104 FAR Part: 135 YDistance: D R 275 |
| 07/25/79 | TIN CITY, AK Rwy ID: 34 Lgth: 4700 Surface Type: GRAVEL Category: VEER | Arprt Name: TIN CITY () Wid: 135 Rwy Status: UNK/MR Phase: LND | Owner Name: Operator Name/DBA: MUNTZ NORTHERN AIRLINES Rwy Surface Character: XDistance: UNK | Acft Mfr: BRITNORMA/BN-2A FAR Part: 121 YDistance: L UNK |

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| 07/25/79 | FT WOOD, MO | Acft Mfr: BEECH/E18S | Owner Name: | Acft Mfr: BEECH/E18S |
| Rwy ID: 14 | Lgth: 5008 | FAR Part: 135 | Operator Name/DBA: SKYWAY AVIATI | FAR Part: 135 |
| Surface Type: MACADAM | | YDistance: L UNK | Rwy Surface Character: | |
| Category: VEER | | | XDistance: UNK | |
| 10/08/79 | CRESTED BUTTE, CO | Acft Mfr: BRITNORMA/BW2A-9 | Owner Name: | Acft Mfr: BRITNORMA/BW2A-9 |
| Rwy ID: 29 | Lgth: 4500 | FAR Part: 135 | Operator Name/DBA: CRESTED BUTTE | FAR Part: 135 |
| Surface Type: GRAVEL | | YDistance: UNK | Rwy Surface Character: | |
| Category: VEER | | | XDistance: A1300 | |
| 10/14/79 | PANAMA CTY, PM | Acft Mfr: DOUGLAS/DC-8 | Owner Name: | Acft Mfr: DOUGLAS/DC-8 |
| Rwy ID: 3 R | Lgth: 10000 | FAR Part: 121 | Operator Name/DBA: BRANIFF INT'L | FAR Part: 121 |
| Surface Type: CONCRETE | | YDistance: D R 174 | Rwy Surface Character: | |
| Category: VEER | | | XDistance: 86700 | |
| 10/24/79 | MINNEAPOLIS, MN | Acft Mfr: BEECH/99 | Owner Name: | Acft Mfr: BEECH/99 |
| Rwy ID: | Lgth: | FAR Part: 135 | Operator Name/DBA: MESABA AIRWAY | FAR Part: 135 |
| Surface Type: | | YDistance: UNK | Rwy Surface Character: | |
| Category: VEER | | | XDistance: UNK | |
| 10/31/79 | THIEF RIV FLS, MN | Acft Mfr: CONVAIR/580 | Owner Name: | Acft Mfr: CONVAIR/580 |
| Rwy ID: 31 | Lgth: 6500 | FAR Part: 121 | Operator Name/DBA: REPUBLIC AIRLINES | FAR Part: 121 |
| Surface Type: MACADAM | | YDistance: D L 125 | Rwy Surface Character: | |
| Category: VEER | | | XDistance: A2000 B3000 | |
| 11/05/79 | TAU, AS | Acft Mfr: DEHAVILLAN/DHC-6 | Owner Name: | Acft Mfr: DEHAVILLAN/DHC-6 |
| Rwy ID: | Lgth: 1620 | FAR Part: 135 | Operator Name/DBA: SOUTH PACIFIC | FAR Part: 135 |
| Surface Type: CORAL | | YDistance: UNK | Rwy Surface Character: | |
| Category: VEER | | | XDistance: UNK | |
| 11/24/79 | FREEMPORT, BA | Acft Mfr: CONVAIR/440 | Owner Name: | Acft Mfr: CONVAIR/440 |
| Rwy ID: | Lgth: 11000 | FAR Part: 121 | Operator Name/DBA: MACKEY INTERNATIONAL | FAR Part: 121 |
| Surface Type: | | YDistance: D L 225 | Rwy Surface Character: | |
| Category: VEER | | | XDistance: A4000 | |
| 01/17/80 | LA CROSSE, WI | Acft Mfr: BEECH/99 | Owner Name: | Acft Mfr: BEECH/99 |
| Rwy ID: 31 | Lgth: 5298 | FAR Part: 135 | Operator Name/DBA: MISSISSIPPI V | FAR Part: 135 |
| Surface Type: MACADAM | | YDistance: UNK | Rwy Surface Character: | |
| Category: VEER | | | XDistance: UNK | |
| 03/06/80 | SOUTH WAKNEK, AK | Acft Mfr: CESSNA/207 | Owner Name: | Acft Mfr: CESSNA/207 |
| Rwy ID: 30 | Lgth: 2600 | FAR Part: 135 | Operator Name/DBA: KODIAK WESTER | FAR Part: 135 |
| Surface Type: GRAVEL | | YDistance: D R 135 | Rwy Surface Character: | |
| Category: VEER | | | XDistance: A 870 B1680 | |
| 06/19/80 | ATLANTA, GA | Acft Mfr: SUD AVN/SE-210 | Owner Name: | Acft Mfr: SUD AVN/SE-210 |
| Rwy ID: 26 | Lgth: 10000 | FAR Part: 121 | Operator Name/DBA: AIRBORNE EXPRESS | FAR Part: 121 |
| Surface Type: CONCRETE | | YDistance: D L 250 | Rwy Surface Character: | |
| Category: VEER | | | XDistance: A2100 B4526 | |

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| 11/11/80 | NEWARK, NJ | NEWARK INTL () | Owner Name: Operator Name/DBA: BRANIFF AIRWAYS Rwy Surface Character: XDistance: A4700 86000 | Acft Mfr: BOEING/727 FAR Part: 121 YDistance: D L 475 |
| 01/28/81 | SAN JUAN, PR | PUERTO RICO INTL () | Owner Name: Operator Name/DBA: SUN INTERNATI Rwy Surface Character: XDistance: A3500 | Acft Mfr: BEECH/G18S FAR Part: 135 YDistance: D L 150 |
| 02/03/81 | AMBLER, AK | AMBLER () | Owner Name: Operator Name/DBA: EVERGREEN HEL Rwy Surface Character: XDistance: B 945 | Acft Mfr: DEHAVILLAN/DHC-6 FAR Part: 135 YDistance: D L 50 |
| 02/13/81 | GRAND ISLAND, NE | HALL COUNTY () | Owner Name: Operator Name/DBA: PIONEER AIRWA Rwy Surface Character: XDistance: UNK | Acft Mfr: BEECH/99 FAR Part: 135 YDistance: R UNK |
| 02/17/81 | SANTA ANA, CA | JOHN WAYNE () | Owner Name: Operator Name/DBA: AIR CALIFORNIA Rwy Surface Character: XDistance: A 900 82070 | Acft Mfr: BOEING/737 FAR Part: 121 YDistance: D R 115 |
| 02/18/81 | LUBBOCK, TX | LUBBOCK INTL () | Owner Name: Operator Name/DBA: COKER AIRFREI Rwy Surface Character: XDistance: UNK | Acft Mfr: BEECH/E18S FAR Part: 135 YDistance: L UNK |
| 06/16/81 | ABILENE, TX | DYESS AFB () | Owner Name: Operator Name/DBA: MUTUAL AIR EX Rwy Surface Character: XDistance: UNK | Acft Mfr: CESSNA/R182 FAR Part: 135 YDistance: R UNK |
| 06/17/81 | SHREVEPORT, LA | SHREVEPORT RGHL () | Owner Name: Operator Name/DBA: ROYALE AIRLIN Rwy Surface Character: XDistance: UNK | Acft Mfr: BEECH/B99 FAR Part: 135 YDistance: L UNK |
| 06/22/81 | MIAMI, FL | MIAMI INTL () | Owner Name: Operator Name/DBA: AIR TAXI SERV Rwy Surface Character: XDistance: A5500 85700 | Acft Mfr: PIPER/PA-23 FAR Part: 135 YDistance: D R 175 |
| 06/26/81 | ST. CROIX, VI | ALEXANDER HAMLTO () | Owner Name: Operator Name/DBA: OCEAN AIR INC Rwy Surface Character: XDistance: UNK | Acft Mfr: BEECH/65-80 FAR Part: 135 YDistance: UNK |

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| 11/30/81 | FAYETTEVILLE, AR | Acft Name: DRAKE () | Owner Name: | Acft Mfr: BEECH/A36 |
| Rwy ID: 16 | Lgth: 6006 | Wid: 100 | Operator Name/DBA: MARTINAIRE, I | FAR Part: 135 |
| Surface Type: MACADAM | | Rwy Status: DRY | Rwy Surface Character: | YDistance: D L 70 |
| Category: VEER | | Phase: LND | XDistance: UNK | |
| 12/30/81 | SAN JUAN, PR | Acft Name: SAN JUAN INTL () | Owner Name: | Acft Mfr: CURTIS-WRT/C-46 |
| Rwy ID: 28 | Lgth: 8016 | Wid: 150 | Operator Name/DBA: CARIBBEAN AIR | FAR Part: 121 |
| Surface Type: CONCRETE | | Rwy Status: WET | Rwy Surface Character: | YDistance: D L 275 |
| Category: VEER | | Phase: LND | XDistance: UNK | |
| 02/24/82 | CHICAGO, IL | Acft Name: O'HARE (ORD) | Owner Name: | Acft Mfr: SWEARINGEN/SA-227 |
| Rwy ID: 27 | Lgth: 7400 | Wid: 150 | Operator Name/DBA: | FAR Part: 135 SCHEDULED |
| Surface Type: ASPHALT | | Rwy Status: DRY | Rwy Surface Character: | YDistance: R UNK |
| Category: VEER | | Phase: LND | XDistance: UNK | |
| 03/30/82 | CHICAGO, IL | Acft Name: O'HARE INTERNATIONAL (ORD) | Owner Name: | Acft Mfr: SWEARINGEN/SA226TC |
| Rwy ID: 32 | Lgth: 11600 | Wid: 200 | Operator Name/DBA: | FAR Part: 135 SCHEDULED |
| Surface Type: CONCRETE | | Rwy Status: DRY | Rwy Surface Character: | YDistance: R UNK |
| Category: VEER | | Phase: T/O | XDistance: A1000 | |
| 04/09/82 | YOUNGSTOWN, OH | Acft Name: YOUNGSTOWN MUNICIPAL (YNG) | Owner Name: | Acft Mfr: BOEING/727-200 |
| Rwy ID: 32 | Lgth: 7492 | Wid: 150 | Operator Name/DBA: | FAR Part: 121 SCHEDULED |
| Surface Type: ASPHALT | | Rwy Status: SNOW-WET | Rwy Surface Character: FULLY GROOVED | YDistance: D L 75 |
| Category: VEER | | Phase: LND | XDistance: B4800 | |
| 05/18/82 | GILLETTE, WY | Acft Name: GILLETTE-CAMPBELL COUNTY (GCC) | Owner Name: | Acft Mfr: GULFSTREAM AMERICAN/G-159C |
| Rwy ID: 15 | Lgth: 6507 | Wid: 75 | Operator Name/DBA: U.S. AVIATION, INC. | IMR Part: 121 SCHEDULED |
| Surface Type: ASPHALT | | Rwy Status: DRY | Rwy Surface Character: SMOOTH TEXTURE | YDistance: UNK |
| Category: VEER | | Phase: LND | XDistance: B2550 | |
| 05/21/82 | DAYTON, OH | Acft Name: COX INTERNATIONAL (DAY) | Owner Name: | Acft Mfr: BAC/1-11-204AF |
| Rwy ID: 18 | Lgth: 6999 | Wid: 150 | Operator Name/DBA: | FAR Part: 121 SCHEDULED |
| Surface Type: ASPHALT | | Rwy Status: WET | Rwy Surface Character: SMOOTH TEXTURE | YDistance: D R 90 |
| Category: VEER | | Phase: LND | XDistance: A3500 B3800 | |
| 06/08/82 | GILLETTE, WY | Acft Name: GILLETTE-CAMPBELL COUNTY (GCC) | Owner Name: | Acft Mfr: GRUMMAN/G-159C |
| Rwy ID: 33 | Lgth: 6507 | Wid: 75 | Operator Name/DBA: U.S. AVIATION, INC. | FAR Part: 121 SCHEDULED |
| Surface Type: ASPHALT | | Rwy Status: WET | Rwy Surface Character: | YDistance: UNK |
| Category: VEER | | Phase: LND | XDistance: B3000 | |
| 09/02/82 | FAIRBANKS, AK | Acft Name: METRO () | Owner Name: | Acft Mfr: CESSNA/402 |
| Rwy ID: 6 | Lgth: 4600 | Wid: 100 | Operator Name/DBA: | FAR Part: 135 SCHEDULED |
| Surface Type: ASPHALT | | Rwy Status: DRY | Rwy Surface Character: SMOOTH TEXTURE | YDistance: D L 50 |
| Category: VEER | | Phase: T/O | XDistance: A 220 B1570 | |
| 11/2-/82 | LITTLE ROCK, AR | Acft Name: ADAMS (LIT) | Owner Name: | Acft Mfr: BOEING/727-223 |
| Rwy ID: 22 | Lgth: 7012 | Wid: 150 | Operator Name/DBA: | FAR Part: 121 SCHEDULED |
| Surface Type: CONCRETE | | Rwy Status: WET | Rwy Surface Character: FULLY GROOVED | YDistance: E L 100 |
| Category: VEER | | Phase: LND | XDistance: A2000 C3400 | |

Appendix 5. LISTING OF VEEROFFS

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| 12/20/84 | GILLETTE, WY | Arpt Name: GILLETTE CAMPBELL COUNT (GCC) | Owner Name: PIONEER AIRLINES | Acft Mfr: SWEARINGEN/SA-227AC |
| Rwy ID: 15 | Lgth: 6500 | Wid: 75 | Operator Name/DBA: | FAR Part: 135 SCHEDULED |
| Surface Type: ASPHALT | | Rwy Status: | Rwy Surface Character: SMOOTH TEXTURE | YDistance: D R 160 |
| Category: VEER | | Phase: T/O | XDistance: A 400 B 850 | |
| 12/22/82 | KLAMATH FALLS, OR | Arpt Name: KINGSLEY FIELD () | Owner Name: GATX THIRD AIRCRAFT CORP. | Acft Mfr: SWEARINGEN/SA-226TC |
| Rwy ID: 14 | Lgth: 10301 | Wid: 150 | Operator Name/DBA: | FAR Part: 135 SCHEDULED |
| Surface Type: CONCRETE | | Rwy Status: SNOW-DRY | Rwy Surface Character: SMOOTH TEXTURE | YDistance: D L 100 |
| Category: VEER | | Phase: T/O | XDistance: B3500 | |
| 01/09/83 | BRAINERD, MN | Arpt Name: BRAINERD CROW WING CO () | Owner Name: | Acft Mfr: CONVAIR/580-11-A |
| Rwy ID: 23 | Lgth: 6500 | Wid: 150 | Operator Name/DBA: REPUBLIC AIRLINES, INC. | FAR Part: 121 SCHEDULED |
| Surface Type: ASPHALT | | Rwy Status: ICE COVERED SNOW-COMPACTED SLUSH COVERED | Rwy Surface Character: | YDistance: D R 80 |
| Category: VEER | | Phase: LND | XDistance: B3300 | |
| 02/09/83 | KWIGILLINGOK, AK | Arpt Name: KWIGILLINGOK (AK8) | Owner Name: BETHEL VENTURES D/B/A | Acft Mfr: CESSNA/207A |
| Rwy ID: 15 | Lgth: 2300 | Wid: 35 | Operator Name/DBA: | FAR Part: 135 SCHEDULED |
| Surface Type: GRAVEL | | Rwy Status: SNOW-DRY | Rwy Surface Character: | YDistance: UNK |
| Category: VEER | | Phase: T/O | XDistance: UNK | |
| 10/06/83 | BURLINGTON, VT | Arpt Name: BURLINGTON INTL (BTY) | Owner Name: BEECH ACCEPTANCE CORP., INC. | Acft Mfr: BEECH/C99 |
| Rwy ID: 33 | Lgth: 7870 | Wid: 150 | Operator Name/DBA: AIR VERMONT | FAR Part: 135 SCHEDULED |
| Surface Type: ASPHALT | | Rwy Status: DRY | Rwy Surface Character: | YDistance: UNK |
| Category: VEER | | Phase: LND | XDistance: A4000 | |
| 11/11/83 | MIAMI, FL | Arpt Name: MIAMI INTL (MIA) | Owner Name: CONNECTICUT NATIONAL BANK | Acft Mfr: BOEING/727-225A |
| Rwy ID: 9 R | Lgth: 13002 | Wid: 150 | Operator Name/DBA: EASTERN AIRLINES | FAR Part: 121 SCHEDULED |
| Surface Type: ASPHALT | | Rwy Status: DRY | Rwy Surface Character: | YDistance: D R 175 |
| Category: VEER | | Phase: LND | XDistance: B10502 | |
| 12/19/83 | ROCK SPRINGS, WY | Arpt Name: SWEETWATER COUNTY (RKS) | Owner Name: COMBS AIRWAYS | Acft Mfr: CONVAIR/440 |
| Rwy ID: 27 | Lgth: 10000 | Wid: 150 | Operator Name/DBA: | FAR Part: 121 SCHEDULED |
| Surface Type: ASPHALT | | Rwy Status: SNOW-COMPACTED | Rwy Surface Character: POROUS | YDistance: D L 100 |
| Category: VEER | | Phase: LND | XDistance: B4700 | |
| 12/20/83 | SIOUX FALLS, SD | Arpt Name: JOE FOSS FIELD (KF3) | Owner Name: OZARK AIR LINES, INC | Acft Mfr: DOUGLAS/DC-9-31 |
| Rwy ID: 3 | Lgth: 8999 | Wid: 150 | Operator Name/DBA: | FAR Part: 121 SCHEDULED |
| Surface Type: CONCRETE | | Rwy Status: SNOW-DRY | Rwy Surface Character: | YDistance: UNK |
| Category: VEER | | Phase: LND | XDistance: B4125 | |
| 01/01/84 | EAST BOSTON, MA | Arpt Name: LOGAN INT'L (BOS) | Owner Name: AIRCRAFT MARKETING, INC. | Acft Mfr: CANADAI/CL44B4 |
| Rwy ID: 4 L | Lgth: 7860 | Wid: 150 | Operator Name/DBA: BLUE BELL, INC. | FAR Part: 121 NON-SCHEDULED |
| Surface Type: ASPHALT | | Rwy Status: SNOW-DRY | Rwy Surface Character: | YDistance: D R 900 |
| Category: VEER | | Phase: LND | XDistance: A4200 B5200 | |
| 01/13/84 | JAMAICA, NY | Arpt Name: KENNEDY (KJF) | Owner Name: PILGRIM AIRLINES | Acft Mfr: FOKKER/F27-100 |
| Rwy ID: 4 L | Lgth: 11351 | Wid: 150 | Operator Name/DBA: | FAR Part: 121 SCHEDULED |
| Surface Type: ASPHALT | | Rwy Status: | Rwy Surface Character: | YDistance: D R 179 |
| Category: VEER | | Phase: LND | XDistance: A6600 B7200 | |

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| 01/14/84 | DURANGO, CO | Rwy ID: 2 | Lgth: 9200 | Surface Type: ASPHALT | Category: VEER | Arpt Name: LA PLATA COUNTY (DRO) | Wid: 150 | Rwy Status: ICE COVERED SNOW-DRY | Phase: LND | Owner Name: COMPUTER AIRLINES OF CO. | Operator Name/DBA: TRANS COLORADO AIRLINE | Rwy Surface Character: | XDistance: A1700B2300 | Acft Mfr: SWEARINGEN/SA227-AC | FAR Part: 135 SCHEDULED | YDistance: D L 85 |
| 01/23/84 | CHICAGO, IL | Rwy ID: 9 L | Lgth: 7416 | Surface Type: ASPHALT | Category: VEER | Arpt Name: O'HARE IAP (ORD) | Wid: 150 | Rwy Status: WET | Phase: T/O | Owner Name: UNITED AIRLINES, INC. | Operator Name/DBA: | Rwy Surface Character: | XDistance: B 400 | Acft Mfr: MCDONNELL DOUGLAS/DC-8-61 | FAR Part: 121 SCHEDULED | YDistance: UNK |
| 02/15/84 | TULSA, OK | Rwy ID: 17 L | Lgth: 10000 | Surface Type: ASPHALT | Category: VEER | Arpt Name: TULSA INT'L (TUL) | Wid: 200 | Rwy Status: DRY | Phase: LND | Owner Name: TRANSCENTRAL AIRLINE CORP. | Operator Name/DBA: | Rwy Surface Character: | XDistance: A2800 | Acft Mfr: NIHOW/YS-11 | FAR Part: 121 SCHEDULED | YDistance: D L 140 |
| 06/13/84 | DETROIT, MI | Rwy ID: 21 R | Lgth: 10501 | Surface Type: CONCRETE | Category: VEER | Arpt Name: DETROIT METRO (DTW) | Wid: 200 | Rwy Status: WET | Phase: LND | Owner Name: US AIR, INC. | Operator Name/DBA: | Rwy Surface Character: | XDistance: B6300 | Acft Mfr: MCDONNELL DOUGLAS/DC-9-31 | FAR Part: 121 SCHEDULED | YDistance: D L 200 |
| 06/29/84 | GRAND ISLAND, NE | Rwy ID: 17 | Lgth: 7001 | Surface Type: ASPHALT | Category: VEER | Arpt Name: HALL COUNTY REGINAL (GRI) | Wid: 150 | Rwy Status: DRY | Phase: T/O | Owner Name: UNITED BANK OF DENVER NAT'L | Operator Name/DBA: PIONEER AIRWAYS, INC.(PIOA) | Rwy Surface Character: | XDistance: UNK | Acft Mfr: SWEARINGEN/SA227-AC | FAR Part: 135 SCHEDULED | YDistance: UNK |
| 07/03/84 | DENVER, CO | Rwy ID: 26 L | Lgth: 10010 | Surface Type: CONCRETE | Category: VEER | Arpt Name: STAPLETON INT'L (DEN) | Wid: 150 | Rwy Status: DRY | Phase: LND | Owner Name: AMERICAN AIRLINES, INC. | Operator Name/DBA: | Rwy Surface Character: | XDistance: B8100 | Acft Mfr: BOEING/727-23 | FAR Part: 121 SCHEDULED | YDistance: D L 105 |
| 09/29/84 | HOUSTON, TX | Rwy ID: 14 R | Lgth: 6048 | Surface Type: CONCRETE | Category: VEER | Arpt Name: HOUSTON INTERNATIONAL (IAH) | Wid: 100 | Rwy Status: DRY | Phase: LND | Owner Name: METROFLIGHT INC. | Operator Name/DBA: METROFLIGHT, INC. | Rwy Surface Character: | XDistance: UNK | Acft Mfr: DEHAVILLAND/DHC-6-300 | FAR Part: 135 SCHEDULED | YDistance: L UNK |
| 11/29/84 | PULLMAN, WA | Rwy ID: 23 | Lgth: 6731 | Surface Type: ASPHALT | Category: VEER | Arpt Name: PULLMAN-MOSCOW (PUM) | Wid: 100 | Rwy Status: SNOW-WET | Phase: LND | Owner Name: HOUSTON ACFT LEASING | Operator Name/DBA: CASCADE AIRWAYS, INC. | Rwy Surface Character: | XDistance: A2335 C3600 | Acft Mfr: FAIRCHILD-SWEARINGEN/SA 227 | FAR Part: 121 SCHEDULED | YDistance: E R 60 |
| 12/16/84 | JASPER, AL | Rwy ID: 27 | Lgth: 4800 | Surface Type: MACADAM | Category: VEER | Arpt Name: WALKER COUNTY (L02) | Wid: 100 | Rwy Status: DRY | Phase: LND | Owner Name: FLIGHT TRAILS | Operator Name/DBA: FLIGHT TRAILS | Rwy Surface Character: | XDistance: A1000 B3000 | Acft Mfr: CONVAIR/440 | FAR Part: 121 NON-SCHEDULED | YDistance: D R 50 |
| 12/17/84 | POINT HOPE, AK | Rwy ID: 19 | Lgth: 4000 | Surface Type: GRAVEL | Category: VEER | Arpt Name: POINT HOPE (PHO) | Wid: 100 | Rwy Status: SNOW-DRY | Phase: T/O | Owner Name: BAKER AVIATION, INC | Operator Name/DBA: BAKER AVIATION, INC. | Rwy Surface Character: | XDistance: A3660 B3900 | Acft Mfr: CESSNA/U206 | FAR Part: 135 SCHEDULED | YDistance: D L 60 |

Appendix 5. LISTING OF VEEROFFS

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| 01/29/85 | DOBBS AFB, GA Rwy ID: 29 Lgth: 10000 Surface Type: CONCRETE Category: VEER | Arprt Name: DOBBS AFB (MGE) Wid: 300 Rwy Status: DRY Phase: LND | Owner Name: TRANSAMERICA AIRLINES, INC. Operator Name/DBA: GALAXY AIR LINES, INC. Rwy Surface Character: ROUGH TEXTURE XDistance: A4200 B4200 | Acft Mfr: LOCKHEED/188C FAR Part: 121 SCHEDULED YDistance: D R 220 |
| 03/08/85 | HAILEY, ID Rwy ID: 31 Lgth: 6600 Surface Type: ASPHALT Category: VEER | Arprt Name: FRIEDMAN MEMORIAL (SUN) Wid: 100 Rwy Status: DRY Phase: LND | Owner Name: GENERAL ELECTRIC CREDIT CORP Operator Name/DBA: HORIZON AIRLINES, INC. Rwy Surface Character: XDistance: A3500 | Acft Mfr: FAIRCHILD/SA-227AC FAR Part: 135 SCHEDULED YDistance: R UNK |
| 03/30/85 | FT. LAUDERDALE, FL Rwy ID: 9 Lgth: 5316 Surface Type: ASPHALT Category: VEER | Arprt Name: FT. LAUDERDALE INT'L (FLL) Wid: 100 Rwy Status: DRY Phase: LND | Owner Name: TRANS AIR, INC. Operator Name/DBA: TRANS AIR, INC. Rwy Surface Character: XDistance: UNK | Acft Mfr: CESSNA/402C FAR Part: 135 SCHEDULED YDistance: UNK |
| 04/28/85 | AMARILLO, TX Rwy ID: 4 Lgth: 13502 Surface Type: ASPHALT Category: VEER | Arprt Name: AMARILLO INTL (AMA) Wid: 300 Rwy Status: WET RUBBER DEPOSITS Phase: LND | Owner Name: SOUTHWEST AIRLINES CO. Operator Name/DBA: Rwy Surface Character: XDistance: B7500 | Acft Mfr: BOEING/737-300 FAR Part: 121 SCHEDULED YDistance: L UNK |
| 12/20/85 | CLEVELAND, OH Rwy ID: 28 Lgth: 6015 Surface Type: ASPHALT Category: VEER | Arprt Name: CLEVELAND-HOPKINS (CLE) Wid: 150 Rwy Status: WET SNOW-COMPACTED Phase: LND | Owner Name: Operator Name/DBA: BRITT AIRWAYS Rwy Surface Character: XDistance: A2950 C4825 | Acft Mfr: FAIRCHILD/SA226TC FAR Part: 135 SCHEDULED YDistance: E L 85 |
| 02/07/86 | MEKORYUK, AK Rwy ID: 23 Lgth: 3500 Surface Type: GRAVEL Category: VEER | Arprt Name: MEKORYUK (MYU) Wid: 50 Rwy Status: ICE COVERED SNOW-DRY Phase: LND | Owner Name: Operator Name/DBA: ERA HELICOPTERS, INC. Rwy Surface Character: ROUGH TEXTURE XDistance: A1000 B1000 | Acft Mfr: DEHAVILLAND/DHC-6 FAR Part: 135 SCHEDULED YDistance: UNK |
| 05/16/86 | LARAMIE, WY Rwy ID: 30 Lgth: 6300 Surface Type: ASPHALT Category: VEER | Arprt Name: GENERAL BRES FIELD ARPT (LAR) Wid: 100 Rwy Status: WET Phase: LND | Owner Name: BEECHCRAFT ACCEPT. CORP. INC. Operator Name/DBA: CENTENNIAL AIRLINES, INC. Rwy Surface Character: POROUS XDistance: A 800 B1800 | Acft Mfr: BEECH/BE-99C FAR Part: 135 SCHEDULED YDistance: D L 244 |
| 05/20/86 | HUTCHINSON, KS Rwy ID: 17 Lgth: 4250 Surface Type: ASPHALT Category: VEER | Arprt Name: HUTCHINSON (HUT) Wid: 75 Rwy Status: DRY Phase: LND | Owner Name: AIR MIDWEST, INC. Operator Name/DBA: Rwy Surface Character: ROUGH TEXTURE XDistance: A1500 B1525 | Acft Mfr: SWEARINGEN/SA226 FAR Part: 135 SCHEDULED YDistance: D L 50 |
| 11/29/86 | SAN JUAN, PR Rwy ID: 8 Lgth: 10000 Surface Type: ASPHALT Category: VEER | Arprt Name: LUIS MUNUZMARTIN INT'L (SJU) Wid: 200 Rwy Status: DRY Phase: T/O | Owner Name: METRO FLIGHT INC. Operator Name/DBA: EASTERN METRO EXPRESS Rwy Surface Character: XDistance: B1000 | Acft Mfr: DEHAVILLAND/DHC-6 FAR Part: 135 SCHEDULED YDistance: D L 350 |
| 12/01/86 | MADISON, WI Rwy ID: 18 Lgth: 9005 Surface Type: ASPHALT Category: VEER | Arprt Name: MADISON/DANE CNTY. (MSN) Wid: 150 Rwy Status: SNOW-WET Phase: LND | Owner Name: NORTHWEST AIRLINES Operator Name/DBA: Rwy Surface Character: XDistance: A3100 C4600 | Acft Mfr: DOUGLAS/DC9-51 FAR Part: 121 SCHEDULED YDistance: E L 95 |

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| 01/10/87 | YUMA, AZ | Rwy ID: 35 | Lgth: 5170 | Surface Type: ASPHALT | Category: VEER | Arpt Name: YUMA INT'L (YUM) Wid: 150 Rwy Status: DRY Phase: LND | Owner Name: GENERAL ELECTRIC CREDIT CORP. Operator Name/DBA: SKY WEST AIRLINES Rwy Surface Character: FULLY GROOVED XDistance: UNK | Acft Mfr: SWEARINGEN/SA227-AC FAR Part: 135 SCHEDULED YDistance: L UNK |
| 02/25/87 | DURANGO, CO | Rwy ID: 2 | Lgth: 9200 | Surface Type: ASPHALT | Category: VEER | Arpt Name: DURANGO-LA PLATA (DRO) Wid: 150 Rwy Status: SNOW-COMPACTED Phase: LND | Owner Name: AMERICA WEST AIRLINES, INC. Operator Name/DBA: Rwy Surface Character: XDistance: 83000 | Acft Mfr: BOEING/737-2A6 FAR Part: 121 SCHEDULED YDistance: D L 145 |
| 03/04/87 | MIAMI, FL | Rwy ID: 9 R | Lgth: 13000 | Surface Type: ASPHALT | Category: VEER | Arpt Name: MIAMI INT'L AIRPORT (MIA) Wid: 150 Rwy Status: DRY Phase: LND | Owner Name: AIR SOUTH AIRLINES Operator Name/DBA: Rwy Surface Character: XDistance: UNK | Acft Mfr: PIPER/PA-34-200 FAR Part: 135 SCHEDULED YDistance: D R 315 |
| 03/24/87 | DALLAS, TX | Rwy ID: 35 L | Lgth: 11388 | Surface Type: CONCRETE | Category: VEER | Arpt Name: DALLAS/FT. WORTH (DFW) Wid: 150 Rwy Status: WET Phase: T/O | Owner Name: METRO FLIGHT INC. Operator Name/DBA: Rwy Surface Character: XDistance: A1770 82200 | Acft Mfr: CONVAIR/CV-580 FAR Part: 121 SCHEDULED YDistance: D L 300 |
| 11/17/87 | PORT ANGELES, WA | Rwy ID: 26 | Lgth: 5180 | Surface Type: ASPHALT | Category: VEER | Arpt Name: WILLIAM FAIRCHILD INT'L (CLM) Wid: 160 Rwy Status: DRY Phase: LND | Owner Name: BEECH ACCEPTANCE CORP., INC. Operator Name/DBA: SAN JUAN AIRLINES Rwy Surface Character: XDistance: UNK | Acft Mfr: BEECH/99-A FAR Part: 135 SCHEDULED YDistance: L UNK |
| 12/15/87 | POCATELLO**, ID | Rwy ID: 3 | Lgth: 9056 | Surface Type: | Category: VEER | Arpt Name: POCATELLO MUNI (PIH) Wid: 150 Rwy Status: Phase: LND | Owner Name: Operator Name/DBA: SKYWEST AIRLINES Rwy Surface Character: XDistance: UNK | Acft Mfr: SWEARINGEN/SA-227SA FAR Part: 135 YDistance: D L 175 |
| 12/27/87 | DENVER, CO | Rwy ID: 35 R | Lgth: 12000 | Surface Type: CONCRETE | Category: VEER | Arpt Name: STAPLETON (DEN) Wid: 200 Rwy Status: SNOW-DRY SNOW-COMPACTED Phase: LND | Owner Name: CONTINENTAL AIRLINES, INC. Operator Name/DBA: CONTINENTAL AIRLINES, INC. Rwy Surface Character: ROUGH TEXTURE XDistance: 87000 | Acft Mfr: MCDONNELL DOUGLAS/MD80 FAR Part: 121 SCHEDULED YDistance: D L 130 |

Appendix 6. LISTING OF OVERRUNS

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| 03/01/78 | LOS ANGELES, CA Rwy ID: Lgth: 10285 Surface Type: TWO OR MORE Category: OVER | Arpt Name: LOS ANGELES INTL () Wid: Rwy Status: WET Phase: T/O | Owner Name: Operator Name/DBA: CONTINENTAL AIRLINES Rwy Surface Character: XDistance: 654 | Acft Mfr: DOUGLAS/DC-10 FAR Part: 121 YDistance: 0 |
| 05/19/78 | MARTINSVILLE, VA Rwy ID: Lgth: 3000 Surface Type: MACADAM Category: OVER | Arpt Name: BLUE RIDGE () Wid: Rwy Status: DRY Phase: T/O | Owner Name: Operator Name/DBA: AMERICAN AIR Rwy Surface Character: XDistance: UNK | Acft Mfr: PIPER/PA-31 FAR Part: 135 YDistance: UNK |
| 05/19/78 | MOLAKAI, HI Rwy ID: Lgth: 4500 Surface Type: MACADAM Category: OVER | Arpt Name: MOLOKAI () Wid: Rwy Status: UNK/NR Phase: LND | Owner Name: Operator Name/DBA: ALL HAWAII AI Rwy Surface Character: XDistance: 184 | Acft Mfr: BEECH/H18 FAR Part: 135 YDistance: UNK |
| 07/05/78 | BEAUFORT, SC Rwy ID: Lgth: 3000 Surface Type: MACADAM Category: OVER | Arpt Name: BEAUFORT COUNTY () Wid: Rwy Status: WET Phase: LND | Owner Name: Operator Name/DBA: COSTAL PLAINS Rwy Surface Character: XDistance: 60 | Acft Mfr: PIPER/PA-32 FAR Part: 135 YDistance: UNK |
| 07/09/78 | ROCHESTER, NY Rwy ID: Lgth: 5500 Surface Type: MACADAM Category: OVER | Arpt Name: MONROE COUNTY () Wid: Rwy Status: DRY Phase: LND | Owner Name: Operator Name/DBA: USAIR Rwy Surface Character: XDistance: 728 | Acft Mfr: BRITISH AC/1-11 FAR Part: 121 YDistance: L 143 |
| 07/21/78 | OSHKOSH, WI Rwy ID: Lgth: 6700 Surface Type: CONCRETE Category: OVER | Arpt Name: WITTMAN FIELD () Wid: Rwy Status: WET Phase: LND | Owner Name: Operator Name/DBA: NORTH CENTRAL AIRLINES Rwy Surface Character: XDistance: 738 | Acft Mfr: DOUGLAS/DC-9 FAR Part: 121 YDistance: UNK |
| 03/17/80 | BATON ROUGE, LA Rwy ID: Lgth: 5799 Surface Type: CONCRETE Category: OVER | Arpt Name: RYAN () Wid: Rwy Status: WET Phase: LND | Owner Name: Operator Name/DBA: TEXAS INTERNATIONAL AIRLINES Rwy Surface Character: XDistance: 350 | Acft Mfr: DOUGLAS/DC-9 FAR Part: 121 YDistance: R 200 |
| 08/20/80 | HARTFORD, CT Rwy ID: Lgth: 3669 Surface Type: MACADAM Category: OVER | Arpt Name: HARTFORD-BRAINARD () Wid: Rwy Status: WET Phase: LND | Owner Name: Operator Name/DBA: CORPORATE AIR Rwy Surface Character: XDistance: 49 | Acft Mfr: PIPER/PA-23 FAR Part: 135 YDistance: 0 |
| 03/11/81 | HAZELTON, PA Rwy ID: Lgth: 4900 Surface Type: MACADAM Category: OVER | Arpt Name: HAZELTON MUNI () Wid: Rwy Status: SNOW-COVERED Phase: T/O | Owner Name: Operator Name/DBA: AIR PENNSYLVANIA Rwy Surface Character: XDistance: 154 | Acft Mfr: BEECH/H18 FAR Part: 135 YDistance: 0 |
| 05/09/81 | MARSHALL, AK Rwy ID: Lgth: 1400 Surface Type: TWO OR MORE Category: OVER | Arpt Name: MARSHALL () Wid: Rwy Status: ROUGH Phase: LND | Owner Name: Operator Name/DBA: COMSTAL AVN Rwy Surface Character: XDistance: UNK | Acft Mfr: CESSNA/207A FAR Part: 135 YDistance: UNK |

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| 08/17/81 | FT. LAUDERDALE, FL Rwy ID: 8048 Surface Type: MACADAM Category: OVER | Arpt Name: FT. LAUDERDALE () Wid: 150 Rwy Status: WET Phase: T/O | Owner Name: Operator Name/DBA: PAN AMERICAN WORLD AIRWAYS Rwy Surface Character: XDistance: 421 | Acft Mfr: BOEING/727 FAR Part: 121 YDistance: L 215 |
| 01/23/82 | BOSTON, MA Rwy ID: 15 Surface Type: CONCRETE Category: OVER | Arpt Name: BOSTON-LOGAN INT'L () Wid: 150 Rwy Status: WET Phase: LND | Owner Name: WORLD AIRWAYS, INC. Operator Name/DBA: Rwy Surface Character: XDistance: 250 | Acft Mfr: MCDONNELL DOUGLAS/DC-10-30 FAR Part: 121 SCHEDULED YDistance: L 110 |
| 02/03/82 | PHILADELPHIA, PA Rwy ID: 9 Surface Type: ASPHALT Category: OVER | Arpt Name: PHILADELPHIA INTL (PHL) Wid: 150 Rwy Status: WET Phase: T/O | Owner Name: Operator Name/DBA: UNITED AIRLINES INC. Rwy Surface Character: FULLY GROOVED XDistance: 1220 | Acft Mfr: MCDONNELL-DOUGLAS/DC-10-10 FAR Part: 121 SCHEDULED YDistance: R 25 |
| 02/15/82 | LOS ANGELES**, CA Rwy ID: 25 L Surface Type: Category: OVER | Arpt Name: LOS ANGELES INT'L (LAX) Wid: 200 Rwy Status: Phase: LND | Owner Name: CONNECTICUT BANK & TRUST CO. Operator Name/DBA: AIRCAL Rwy Surface Character: XDistance: UNK | Acft Mfr: BOEING/B737-2H4 FAR Part: 121 YDistance: UNK |
| 02/19/82 | HARLINGEN, TX Rwy ID: 17 Surface Type: CONCRETE Category: OVER | Arpt Name: HARLINGEN IND. AIR PARK (HRL) Wid: 150 Rwy Status: WATER COVERED Phase: LND | Owner Name: MEXICANA AIRLINES Operator Name/DBA: Rwy Surface Character: SMOOTH TEXTURE XDistance: 300 | Acft Mfr: BOEING/B-727-200 FAR Part: 121 SCHEDULED YDistance: UNK |
| 07/05/82 | BOISE, ID Rwy ID: 28 Surface Type: ASPHALT Category: OVER | Arpt Name: BOISE AIR TERMINAL (BOI) Wid: 190 Rwy Status: DRY Phase: T/O | Owner Name: REPUBLIC AIRLINES WEST, INC. Operator Name/DBA: Rwy Surface Character: SMOOTH TEXTURE XDistance: 50 | Acft Mfr: DOUGLAS/DC-9-31 FAR Part: 121 SCHEDULED YDistance: UNK |
| 11/26/82 | GUSTAVUS, AK Rwy ID: 1 Surface Type: ASPHALT Category: OVER | Arpt Name: GUSTAVUS (GST) Wid: 340 Rwy Status: SNOW-WET Phase: T/O | Owner Name: LAYTON A. BENNETT Operator Name/DBA: Rwy Surface Character: SMOOTH TEXTURE XDistance: UNK | Acft Mfr: PIPER/PA-32R-300 FAR Part: 135 SCHEDULED YDistance: UNK |
| 12/18/82 | PELLSTON, MI Rwy ID: 32 Surface Type: ASPHALT Category: OVER | Arpt Name: EMMET COUNTY AIRPORT (PLM) Wid: 150 Rwy Status: ICE COVERED Phase: LND | Owner Name: REPUBLIC AIRLINES, INC. Operator Name/DBA: Rwy Surface Character: XDistance: 80 | Acft Mfr: DOUGLAS/DC9-30 FAR Part: 121 SCHEDULED YDistance: 0 |
| 12/23/83 | ANCHORAGE, AK Rwy ID: 24 R Surface Type: ASPHALT Category: OVER | Arpt Name: ANCHORAGE INT'L. (ANC) Wid: 200 Rwy Status: ICE COVERED SNOW-COMPACTED Phase: T/O | Owner Name: KOREAN AIR LINES Operator Name/DBA: Rwy Surface Character: XDistance: 1434 | Acft Mfr: MCDONNELL-DOUGLAS/DC-10-30C FAR Part: 129 SCHEDULED YDistance: R 40 |
| 02/28/84 | JAMAICA, NY Rwy ID: 4 R Surface Type: ASPHALT Category: OVER | Arpt Name: JOHN F KENNEDY INTL (JFK) Wid: 150 Rwy Status: WET Phase: LND | Owner Name: DET NORSE LUFTFARTSSLEKAB Operator Name/DBA: SCANDINAVIAN AIRLINES Rwy Surface Character: XDistance: 560 | Acft Mfr: MCDONNELL DOUGLAS/DC-10-30 FAR Part: 129 SCHEDULED YDistance: 0 |

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| 05/27/84 | HICKORY, NC | Arpt Name: HICKORY (HKY) | Owner Name: COASTAL STATES AVIATION INC. | Acft Mfr: CESSNA/402C |
| Rwy ID: 24 | Lgth: 6400 | Wid: 140 | Operator Name/DBA: SUNBIRD AIRLINES, INC. | FAR Part: 135 SCHEDULED |
| Surface Type: ASPHALT | | Rwy Status: WET | Rwy Surface Character: | YDistance: UNK |
| Category: OVER | | Phase: LND | XDistance: 240 | |
| 06/23/84 | CHICAGO, IL | Arpt Name: O'HARE INTL (ORD) | Owner Name: TRADEWINDS AIRWAYS LTD | Acft Mfr: BOEING/707-323C |
| Rwy ID: 22 R | Lgth: 7500 | Wid: 150 | Operator Name/DBA: | FAR Part: 129 SCHEDULED |
| Surface Type: CONCRETE | | Rwy Status: WET | Rwy Surface Character: | YDistance: 0 |
| Category: OVER | | Phase: LND | XDistance: 900 | |
| 01/31/85 | LONDON, KY | Arpt Name: LONDON-CORBIN (LOZ) | Owner Name: UNITED PARCEL SERVICE CO. | Acft Mfr: SWEARINGEN/SA-227 |
| Rwy ID: 5 | Lgth: 6000 | Wid: 150 | Operator Name/DBA: SAT-AIR, INC. | FAR Part: 135 SCHEDULED |
| Surface Type: ASPHALT | | Rwy Status: WET | Rwy Surface Character: | YDistance: 0 |
| Category: OVER | | Phase: LND | XDistance: 260 | |
| 02/05/85 | CHARLOTTE, NC | Arpt Name: CHARLOTTE/DOUGLAS (CLT) | Owner Name: BO-S-AIRE AIRLINES, INC. | Acft Mfr: DOUGLAS/DC-3 |
| Rwy ID: 18 L | Lgth: 7845 | Wid: 150 | Operator Name/DBA: BO-S-AIRE AIRLINES, INC. | FAR Part: 121 SCHEDULED |
| Surface Type: CONCRETE | | Rwy Status: ICE COVERED | Rwy Surface Character: | YDistance: 0 |
| Category: OVER | | Phase: LND | XDistance: 75 | |
| 06/27/85 | SAN JUAN, PR | Arpt Name: LUIS MUÑOZ MARIN INT'L (SJV) | Owner Name: AMERICAN AIRLINES, INC. | Acft Mfr: MCDONNELL DOUGLAS/DC-10-10 |
| Rwy ID: 8 | Lgth: 10002 | Wid: 200 | Operator Name/DBA: | FAR Part: 121 SCHEDULED |
| Surface Type: ASPHALT | | Rwy Status: DRY | Rwy Surface Character: | YDistance: L 160 |
| Category: OVER | | Phase: T/O | XDistance: 62 | |
| 08/28/85 | GREEN BAY, WI | Arpt Name: AUSTIN STRAUBEL FLD (GRB) | Owner Name: SEC. PACIFIC COM LEASING INC. | Acft Mfr: BRITISH AEROSPACE/BAC 1-11-20 |
| Rwy ID: 36 | Lgth: 6000 | Wid: 150 | Operator Name/DBA: AIR WISCONSIN | FAR Part: 121 SCHEDULED |
| Surface Type: CONCRETE | | Rwy Status: WET | Rwy Surface Character: | YDistance: 0 |
| Category: OVER | | Phase: LND | XDistance: UNK | |
| 09/24/85 | WASHINGTON**, DC | Arpt Name: WASHINGTON NATIONAL (DCA) | Owner Name: | Acft Mfr: BOEING/B-727 |
| Rwy ID: 36 | Lgth: 6869 | Wid: 150 | Operator Name/DBA: EASTERN AIRLINES | FAR Part: 121 |
| Surface Type: | | Rwy Status: DRY | Rwy Surface Character: | YDistance: UNK |
| Category: OVER | | Phase: T/O | XDistance: 580 | |
| 01/02/86 | DETROIT, MI | Arpt Name: DETROIT METROPOLITAN (DTW) | Owner Name: WILMINGTON TRUST COMPANY TRUS | Acft Mfr: MCDONNELL DOUGLAS/DC-10-10 |
| Rwy ID: 21 C | Lgth: 8500 | Wid: 200 | Operator Name/DBA: AMERICAN AIRLINE, INC. | FAR Part: 121 SCHEDULED |
| Surface Type: ASPHALT | | Rwy Status: ICE COVERED SNOW-COMPACTED | Rwy Surface Character: FULLY GROOVED | YDistance: L 40 |
| Category: OVER | | Phase: LND | XDistance: 449 | |
| 02/21/86 | ERIE, PA | Arpt Name: ERIE INTL (KER) | Owner Name: US AIR, INC. | Acft Mfr: MCDONNELL-DOUGLAS/DC-9-31 |
| Rwy ID: 24 | Lgth: 6000 | Wid: 150 | Operator Name/DBA: US AIR, INC. | FAR Part: 121 SCHEDULED |
| Surface Type: ASPHALT | | Rwy Status: SNOW-WET | Rwy Surface Character: FULLY GROOVED | YDistance: L 86 |
| Category: OVER | | Phase: LND | XDistance: 180 | |
| 03/13/86 | CHARLESTON, SC | Arpt Name: CHARLESTON AFB/INTL. (CHS) | Owner Name: EASTERN AIR LINES | Acft Mfr: MCDONNELL DOUGLAS/DC-9-31 |
| Rwy ID: 15 | Lgth: 9001 | Wid: 200 | Operator Name/DBA: | FAR Part: 121 SCHEDULED |
| Surface Type: ASPHALT | | Rwy Status: WET | Rwy Surface Character: | YDistance: R 268 |
| Category: OVER | | Phase: LND | XDistance: 369 | |

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| 10/25/86 | CHARLOTTE, NC | Arpt Name: CHARLOTTE DOUGLAS INTL () | Owner Name: | Acft Mfr: BOEING/737-222 |
| Rwy ID: 36 R | Lgth: 7845 | Wid: 150 | Operator Name/DBA: PIEDMONT AIRLINES | FAR Part: 121 SCHEDULED |
| Surface Type: ASPHALT | | Rwy Status: WET | Rwy Surface Character: FULLY GROOVED | |
| Category: OVER | | Phase: LND | XDistance: 445 | YDistance: 0 |
| 08/03/87 | DENVER, CO | Arpt Name: STAPLETON INT'L (DEN) | Owner Name: CONTINENTAL AIRLINES, INC. | Acft Mfr: AIRBUS INDUSTRIES/A300B4-203 |
| Rwy ID: 35 R | Lgth: 12000 | Wid: 200 | Operator Name/DBA: | FAR Part: 121 SCHEDULED |
| Surface Type: CONCRETE | | Rwy Status: DRY | Rwy Surface Character: FULLY GROOVED | |
| Category: OVER | | Phase: T/O | XDistance: 418 | YDistance: 0 |
| 11/18/87 | ATMAUTLUAK, AK | Arpt Name: ATMAUTLUAK (08A) | Owner Name: WILFRED RYAN | Acft Mfr: CESSNA/208 |
| Rwy ID: 15 | Lgth: 2000 | Wid: 80 | Operator Name/DBA: RYAN AIR SERVICE, INC | FAR Part: 135 SCHEDULED |
| Surface Type: ICE | | Rwy Status: DRY | Rwy Surface Character: | |
| Category: OVER | | Phase: LND | XDistance: 110 | YDistance: L 50 |

Appendix 7. LISTING OF OTHER A/I'S IN AIRPORT VICINITY

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|------------------------|-------------------|---------------------------------|---|---------------------------|
| 01/17/78 | NEW CASTLE, DE | Arpt Name: GREATER WILMINGT () | Owner Name: | Acft Mfr: BEECH/C45H |
| Rwy ID: | Lgth: 7000 | Wid: | Operator Name/DBA: FLT EXPRES CA | FAR Part: 135 |
| Surface Type: MACADAM | | Rwy Status: ICE COVERED | Rwy Surface Character: | |
| Category: OTHER | | Phase: LND | XDistance: *1M | YDistance: |
| 02/10/78 | RICHLAND, WA | Arpt Name: RICHLAND () | Owner Name: | Acft Mfr: BEECH/99 |
| Rwy ID: | Lgth: 4000 | Wid: | Operator Name/DBA: COLUMBIA PACI | FAR Part: 135 |
| Surface Type: MACADAM | | Rwy Status: | Rwy Surface Character: | |
| Category: OTHER | | Phase: T/O | XDistance: 1669 | YDistance: L1031 |
| 03/01/78 | AGAMA, GO | Arpt Name: GUAM INTL () | Owner Name: | Acft Mfr: CESSNA/337F |
| Rwy ID: | Lgth: 10000 | Wid: | Operator Name/DBA: ISLAND AIR, IN | FAR Part: 135 |
| Surface Type: MACADAM | | Rwy Status: DRY | Rwy Surface Character: | |
| Category: OTHER | | Phase: T/O | XDistance: *.67NM | YDistance: |
| 05/08/78 | PENSACOLA, FL | Arpt Name: PENSACOLA RGHL () | Owner Name: | Acft Mfr: BOEING/727 |
| Rwy ID: | Lgth: | Wid: | Operator Name/DBA: NATIONAL AIRLINES | FAR Part: 121 |
| Surface Type: | | Rwy Status: | Rwy Surface Character: | |
| Category: OTHER | | Phase: LND | XDistance: *3.5M | YDistance: |
| 06/19/78 | WINDSOR LOCKS, CT | Arpt Name: BRADLEY INTL () | Owner Name: | Acft Mfr: BEECH/18 |
| Rwy ID: | Lgth: | Wid: | Operator Name/DBA: GREAT WESTERN | FAR Part: 135 |
| Surface Type: | | Rwy Status: | Rwy Surface Character: | |
| Category: OTHER | | Phase: LND | XDistance: *2.7M NE APT | YDistance: |
| 06/23/78 | ASHLAND, NE | Arpt Name: () | Owner Name: | Acft Mfr: AERO COMDR/680 |
| Rwy ID: | Lgth: | Wid: | Operator Name/DBA: AAA AIR ENTER | FAR Part: 135 |
| Surface Type: | | Rwy Status: | Rwy Surface Character: | |
| Category: OTHER | | Phase: LND | XDistance: UNK | YDistance: UNK |
| 07/25/78 | KALAMAZOO, MI | Arpt Name: KALAMAZOO MUNI () | Owner Name: | Acft Mfr: CONVAIR/580 |
| Rwy ID: | Lgth: | Wid: | Operator Name/DBA: NORTH CENTRAL AIRLINES | FAR Part: 121 |
| Surface Type: | | Rwy Status: | Rwy Surface Character: | |
| Category: OTHER | | Phase: T/O | XDistance: *2M E APT | YDistance: |
| 08/03/78 | MANHATTAN, KS | Arpt Name: MANHATTAN MUNI (MHK) | Owner Name: | Acft Mfr: CESSNA/402A |
| Rwy ID: | Lgth: 5500 | Wid: | Operator Name/DBA: CAPITOL AIR SERVICE | FAR Part: 135 |
| Surface Type: CONCRETE | | Rwy Status: DRY | Rwy Surface Character: | |
| Category: OTHER | | Phase: T/O | XDistance: UNK | YDistance: UNK |
| 09/06/78 | GREAT FALLS, MT | Arpt Name: GREAT FALLS INTL () | Owner Name: | Acft Mfr: AERO COMDR/500B |
| Rwy ID: | Lgth: 10500 | Wid: | Operator Name/DBA: COMBS AIRWAYS | FAR Part: 135 |
| Surface Type: CONCRETE | | Rwy Status: WET | Rwy Surface Character: | |
| Category: OTHER | | Phase: LND | XDistance: 5280 | YDistance: 0 |
| 09/07/78 | SAN ANTONIO, TX | Arpt Name: SAN ANTONIO INTL () | Owner Name: | Acft Mfr: CESSNA/1820 |
| Rwy ID: | Lgth: | Wid: | Operator Name/DBA: AIR CENTER IN | FAR Part: 135 |
| Surface Type: | | Rwy Status: | Rwy Surface Character: | |
| Category: OTHER | | Phase: LND | XDistance: UNK | YDistance: UNK |

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| 09/19/78 | BLOUNTVILLE, TN Rwy ID: 6599 Surface Type: MACADAM Category: OTHER | Arpt Name: TRI-CITIES () Wid: Rwy Status: DRY Phase: LND | Owner Name: Operator Name/DBA: APPLACHIAN FL Rwy Surface Character: XDistance: *2M | Acft Mfr: PIPER/PA-31 FAR Part: 135 YDistance: |
| 11/16/78 | HAYS, KS Rwy ID: 5700 Surface Type: CONCRETE Category: OTHER | Arpt Name: HAYS MUNI () Wid: Rwy Status: WET Phase: LND | Owner Name: Operator Name/DBA: FESTUS FLYING Rwy Surface Character: XDistance: *7M APT | Acft Mfr: BEECH/G18S FAR Part: 135 YDistance: |
| 12/08/78 | HASTINGS, MN Rwy ID: Surface Type: Category: OTHER | Arpt Name: () Wid: Rwy Status: Phase: LND | Owner Name: Operator Name/DBA: RAPID AIR INC Rwy Surface Character: XDistance: UNK | Acft Mfr: CESSNA/402 FAR Part: 135 YDistance: UNK |
| 12/28/78 | PORTLAND, OR Rwy ID: 11014 Surface Type: MACADAM Category: OTHER | Arpt Name: PORTLAND INTL () Wid: Rwy Status: DRY Phase: LND | Owner Name: Operator Name/DBA: UNITED AIRLINES Rwy Surface Character: XDistance: *6.1NM APT | Acft Mfr: DOUGLAS/DC-8 FAR Part: 121 YDistance: |
| 01/04/79 | SACRAMENTO, CA Rwy ID: 3954 Surface Type: MACADAM Category: OTHER | Arpt Name: SACRAMENTO EXEC () Wid: Rwy Status: UNK/NR Phase: T/O | Owner Name: Operator Name/DBA: UNION FLIGHTS Rwy Surface Character: XDistance: UNK | Acft Mfr: BEECH/G18S FAR Part: 135 YDistance: UNK |
| 02/09/79 | MIAMI, FL Rwy ID: 10500 Surface Type: MACADAM Category: OTHER | Arpt Name: DADE-COLLIER JET () Wid: Rwy Status: DRY Phase: T/O | Owner Name: Operator Name/DBA: EASTERN AIRLI Rwy Surface Character: XDistance: 5700APP | Acft Mfr: DOUGLAS/DC-9 FAR Part: 121 YDistance: L 825 |
| 02/12/79 | CLARKSBURG, WV Rwy ID: 5198 Surface Type: TWO OR MORE Category: OTHER | Arpt Name: BENEDUM () Wid: Rwy Status: SNOW-COVERED Phase: T/O | Owner Name: Operator Name/DBA: USAIR Rwy Surface Character: XDistance: 60 | Acft Mfr: FRANKS/M298 FAR Part: 121 YDistance: R 137 |
| 02/27/79 | INDIANAPOLIS, IN Rwy ID: 7600 Surface Type: CONCRETE Category: OTHER | Arpt Name: INDIANAPOLIS INT () Wid: Rwy Status: DRY Phase: T/O | Owner Name: Operator Name/DBA: Rwy Surface Character: XDistance: 5565 APP | Acft Mfr: BEECH/E18S FAR Part: 135 YDistance: L1245 |
| 02/27/79 | CHEYENNE, WY Rwy ID: 4997 Surface Type: Category: OTHER | Arpt Name: CHEYENNE MUNI () Wid: Rwy Status: Phase: T/O | Owner Name: Operator Name/DBA: ROCKY MOUNTAI Rwy Surface Character: XDistance: *1NM ESE | Acft Mfr: DEHAVILLAN/DHC-6 FAR Part: 135 YDistance: |
| 03/01/79 | GULFPORT, MS Rwy ID: 5700 Surface Type: Category: OTHER | Arpt Name: GULFPORT-BILOXI () Wid: Rwy Status: Phase: T/O | Owner Name: Operator Name/DBA: UNIVERSAL AIR Rwy Surface Character: XDistance: 500 | Acft Mfr: BEECH/BE-70 FAR Part: 135 YDistance: R 700 |

Appendix 7. LISTING OF OTHER A/I'S IN AIRPORT VICINITY

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| 03/10/79 | MARINA DEL REY, CA | Arpt Name: LOS ANGELES INTL () | Owner Name: | Acft Mfr: BORD-AVION/262 |
| Rwy ID: | Lgth: | Wtd: | Operator Name/DBA: SWIFT AIRE LI | FAR Part: 135 |
| Surface Type: | | Rwy Status: | Rwy Surface Character: | YDdistance: |
| Category: OTHER | | Phase: T/O | XDdistance: *1.6NM | |
| 03/23/79 | CEDAR RAPIDS, IA | Arpt Name: CEDAR RAPIDS MUN () | Owner Name: | Acft Mfr: BEECH/E18S |
| Rwy ID: | Lgth: 5450 | Wtd: | Operator Name/DBA: GREAT WESTERN | FAR Part: 135 |
| Surface Type: MACADAM | | Rwy Status: SLUSH COVERED | Rwy Surface Character: | YDdistance: L 500 |
| Category: OTHER | | Phase: T/O | XDdistance: 350 | |
| 04/03/79 | CHICAGO, IL | Arpt Name: OHARE INTL () | Owner Name: | Acft Mfr: BEECH/E18S |
| Rwy ID: | Lgth: 10140 | Wtd: | Operator Name/DBA: BURL AIR FREI | FAR Part: 135 |
| Surface Type: CONCRETE | | Rwy Status: DRY | Rwy Surface Character: | YDdistance: UNK |
| Category: OTHER | | Phase: T/O | XDdistance: UNK | |
| 04/04/79 | NEWBURG, NY | Arpt Name: STEWART () | Owner Name: | Acft Mfr: BEECH/E-18 |
| Rwy ID: | Lgth: 6006 | Wtd: | Operator Name/DBA: PROVIDENCE AI | FAR Part: 135 |
| Surface Type: MACADAM | | Rwy Status: DRY | Rwy Surface Character: | YDdistance: UNK |
| Category: OTHER | | Phase: T/O | XDdistance: *.25M | |
| 04/16/79 | MOLOKAI, HI | Arpt Name: MOLOKAI () | Owner Name: | Acft Mfr: BEECH/D-18 |
| Rwy ID: | Lgth: 4493 | Wtd: | Operator Name/DBA: ALII AIR HAWA | FAR Part: 135 |
| Surface Type: MACADAM | | Rwy Status: WET | Rwy Surface Character: | YDdistance: UNK |
| Category: OTHER | | Phase: T/O | XDdistance: 1500 | |
| 05/25/79 | CHICAGO, IL | Arpt Name: CHICAGO-O'HARE () | Owner Name: | Acft Mfr: DOUGLAS/DC-10 |
| Rwy ID: | Lgth: 10003 | Wtd: | Operator Name/DBA: AMERICAN AIRLINES | FAR Part: 121 |
| Surface Type: CONCRETE | | Rwy Status: DRY | Rwy Surface Character: | YDdistance: L1100 |
| Category: OTHER | | Phase: T/O | XDdistance: 4500 | |
| 05/30/79 | ROCKLAND, ME | Arpt Name: KNOX COUNTY RGML () | Owner Name: | Acft Mfr: DEHAVILLAN/DHC-6 |
| Rwy ID: | Lgth: | Wtd: | Operator Name/DBA: DOWNEAST AIRL | FAR Part: 135 |
| Surface Type: | | Rwy Status: | Rwy Surface Character: | YDdistance: |
| Category: OTHER | | Phase: LND | XDdistance: *1.2M | |
| 06/17/79 | HYANNIS, MA | Arpt Name: BARNSTABLE MUNI () | Owner Name: | Acft Mfr: DEHAVILLAN/DHC-6 |
| Rwy ID: | Lgth: 5563 | Wtd: | Operator Name/DBA: AIR NEW ENGLA | FAR Part: 121 |
| Surface Type: MACADAM | | Rwy Status: WET | Rwy Surface Character: | YDdistance: 0 |
| Category: OTHER | | Phase: LND | XDdistance: 9000 | |
| 07/24/79 | ST CROIX, VI | Arpt Name: ALEX HAMILTON () | Owner Name: | Acft Mfr: DEHAVILLAN/DH-114 |
| Rwy ID: | Lgth: 7612 | Wtd: | Operator Name/DBA: PRINAIR | FAR Part: 135 |
| Surface Type: MACADAM | | Rwy Status: | Rwy Surface Character: | YDdistance: R 792 |
| Category: OTHER | | Phase: T/O | XDdistance: 5500 APP | |
| 08/21/79 | HICKORY, NC | Arpt Name: HICKORY MUNICIPA () | Owner Name: | Acft Mfr: PIPER/PA-32 |
| Rwy ID: | Lgth: 6402 | Wtd: | Operator Name/DBA: AIR CAROLINA | FAR Part: 135 |
| Surface Type: MACADAM | | Rwy Status: | Rwy Surface Character: | YDdistance: 0 |
| Category: OTHER | | Phase: LND | XDdistance: 2400 | |

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| 08/30/79 | MIDDLETOWN, PA | Rwy ID: 9501 Surface Type: MACADAM Category: OTHER | Arprt Name: HARRISBURG INTL () Wid: Rwy Status: DRY Phase: LND | Owner Name: Operator Name/DBA: KEYSTONE AVIA Rwy Surface Character: XDistance: 8892 | Acft Mfr: BEECH/58 FAR Part: 135 YDistance: 0 |
| 09/19/79 | SUFFIELD, CT | Rwy ID: 5246 Surface Type: CONCRETE Category: OTHER | Arprt Name: BRADLEY INTL () Wid: Rwy Status: DRY Phase: T/O | Owner Name: Operator Name/DBA: MOUNTAIN AIR Rwy Surface Character: XDistance: 2600 | Acft Mfr: BEECH/E18S FAR Part: 135 YDistance: L1100 |
| 10/08/79 | COVINGTON, KY | Rwy ID: 9500 Surface Type: MACADAM Category: OTHER | Arprt Name: GRTR CINCINNATI () Wid: Rwy Status: DRY Phase: T/O | Owner Name: Operator Name/DBA: COMAIR, INC. Rwy Surface Character: XDistance: 8695 | Acft Mfr: PIPER/PA-31 FAR Part: 135 YDistance: R1189 |
| 11/02/79 | GREENVILLE, SC | Rwy ID: 5393 Surface Type: MACADAM Category: OTHER | Arprt Name: GREENVILLE DUNTM () Wid: Rwy Status: DRY Phase: T/O | Owner Name: Operator Name/DBA: BANKAIR, INC Rwy Surface Character: XDistance: *1M NW APT | Acft Mfr: PIPER/PA-31 FAR Part: 135 YDistance: |
| 11/16/79 | TUSAYAM, AZ | Rwy ID: 9000 Surface Type: MACADAM Category: OTHER | Arprt Name: GRAND CANYON () Wid: Rwy Status: DRY Phase: T/O | Owner Name: Operator Name/DBA: Rwy Surface Character: XDistance: 7531 | Acft Mfr: MARTIN/404 FAR Part: 121 YDistance: L2447 |
| 01/18/80 | ST. CROIX, VI | Rwy ID: 7612 Surface Type: MACADAM Category: OTHER | Arprt Name: ALEX HAMILTON () Wid: Rwy Status: DRY Phase: T/O | Owner Name: Operator Name/DBA: EASTERN CARIB Rwy Surface Character: XDistance: *1.5M SSE | Acft Mfr: PIPER/PA-31 FAR Part: 135 YDistance: |
| 02/29/80 | MOAB, UT | Rwy ID: 6901 Surface Type: MACADAM Category: OTHER | Arprt Name: CANYONLANDS () Wid: Rwy Status: DRY Phase: T/O | Owner Name: Operator Name/DBA: TRANSWESTERN Rwy Surface Character: XDistance: 963 | Acft Mfr: PIPER/PA-31 FAR Part: 135 YDistance: 0 |
| 03/21/80 | HOUSTON, TX | Rwy ID: 7602 Surface Type: CONCRETE Category: OTHER | Arprt Name: WILLIAM P. HOBBY () Wid: Rwy Status: DRY Phase: T/O | Owner Name: Operator Name/DBA: EAGLE COMPUTE Rwy Surface Character: XDistance: 6500 APP | Acft Mfr: PIPER/PA-31 FAR Part: 135 YDistance: R1275 |
| 05/12/80 | FORT WORTH, TX | Rwy ID: 250 Surface Type: Category: OTHER | Arprt Name: MANGHAM () Wid: Rwy Status: MET Phase: T/O | Owner Name: Operator Name/DBA: ASAP AIR, INC Rwy Surface Character: XDistance: 500 | Acft Mfr: PIPER/PA-31 FAR Part: 135 YDistance: UNK |
| 06/18/80 | ALDER CREEK, AK | Rwy ID: 1800 Surface Type: DIRT Category: OTHER | Arprt Name: ALDER CREEK () Wid: Rwy Status: ROUGH Phase: T/O | Owner Name: Operator Name/DBA: AIR NORTH Rwy Surface Character: XDistance: UNK | Acft Mfr: CESSNA/207 FAR Part: 135 YDistance: UNK |

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| 07/07/80 JACKSON, MS Rwy ID: Lgth: 8500 Surface Type: MACADAM Category: OTHER | Arpt Name: ALLEN C THOMPSON () Wid: Rwy Status: WET Phase: LND | Owner Name: Operator Name/DBA: ASTRO WINGS I Rwy Surface Character: XDistance: *1.5M | Acft Mfr: AERO COMOR/680V FAR Part: 135 YDistance: |
| 07/21/80 TUSAYAN, AZ Rwy ID: Lgth: 8999 Surface Type: MACADAM Category: OTHER | Arpt Name: GRND CYN NATL PK () Wid: Rwy Status: DRY Phase: T/O | Owner Name: Operator Name/DBA: SCENIC AIRLIN Rwy Surface Character: XDistance: *3M S APT | Acft Mfr: CESSNA/404 FAR Part: 135 YDistance: |
| 09/12/80 FAIRBANKS, AK Rwy ID: Lgth: 3200 Surface Type: MACADAM Category: OTHER | Arpt Name: FAIRBANKS INTL () Wid: Rwy Status: DRY Phase: T/O | Owner Name: Operator Name/DBA: AURORA AIR SE Rwy Surface Character: XDistance: 600 | Acft Mfr: CESSNA/207 FAR Part: 135 YDistance: L 150 |
| 09/21/80 WICHITA FALLS, TX Rwy ID: Lgth: 7000 Surface Type: MACADAM Category: OTHER | Arpt Name: WICHITA FALLS MU () Wid: Rwy Status: DRY Phase: T/O | Owner Name: Operator Name/DBA: RIO AIRLINES Rwy Surface Character: XDistance: 2800 APP | Acft Mfr: DEHAVILLAN/DHC-6 FAR Part: 135 YDistance: UNK |
| 09/29/80 LEVELOCK, AK Rwy ID: Lgth: 1880 Surface Type: DIRT Category: OTHER | Arpt Name: LEVELOCK () Wid: Rwy Status: DRY Phase: T/O | Owner Name: Operator Name/DBA: KODIAK WESTER Rwy Surface Character: XDistance: UNK | Acft Mfr: CESSNA/207 FAR Part: 135 YDistance: UNK |
| 01/20/81 SPOKANE, WA Rwy ID: Lgth: 9000 Surface Type: MACADAM Category: OTHER | Arpt Name: SPOKANE INTL () Wid: Rwy Status: UNK/NR Phase: LND | Owner Name: Operator Name/DBA: CASCADE AIRWA Rwy Surface Character: XDistance: *4.5NM | Acft Mfr: BEECH/99A FAR Part: 135 YDistance: |
| 02/02/81 ROEBUCK, SC Rwy ID: Lgth: 5203 Surface Type: MACADAM Category: OTHER | Arpt Name: SPARTANBURG () Wid: Rwy Status: DRY Phase: T/O | Owner Name: Operator Name/DBA: BANKAIR INC. Rwy Surface Character: XDistance: UNK | Acft Mfr: PIPER/PA-28R FAR Part: 135 YDistance: UNK |
| 02/10/81 PRESCOTT, AZ Rwy ID: Lgth: 7600 Surface Type: MACADAM Category: OTHER | Arpt Name: ERNEST A. LOVE () Wid: Rwy Status: DRY Phase: LND | Owner Name: Operator Name/DBA: DESERT PACIFI Rwy Surface Character: XDistance: UNK | Acft Mfr: PIPER/PA-31 FAR Part: 135 YDistance: UNK |
| 03/04/81 KIRKSVILLE, MO Rwy ID: Lgth: 6004 Surface Type: CONCRETE Category: OTHER | Arpt Name: CLARENCE CANNON () Wid: Rwy Status: UNK/NR Phase: LND | Owner Name: Operator Name/DBA: GREEN HILLS A Rwy Surface Character: XDistance: 5100 | Acft Mfr: PIPER/PA-31 FAR Part: 135 YDistance: 0 |
| 03/26/81 EAU CLAIRE, WI Rwy ID: Lgth: 7300 Surface Type: Category: OTHER | Arpt Name: EAU CLAIRE MUNI () Wid: Rwy : us: Phase: LND | Owner Name: Operator Name/DBA: AERODYNE, INC Rwy Surface Character: XDistance: *7M SW APT | Acft Mfr: BEECH/95-C55 FAR Part: 135 YDistance: |

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| 04/26/81 | HOUSTON, TX | Acft Mfr: PIPER/PA-31 FAR Part: 135 YDistance: |
| Rwy ID: | Arpt Name: HOBBY () | Owner Name: |
| Surface Type: | Wid: | Operator Name/DBA: EAGLE AIRLINE |
| Category: OTHER | Rwy Status: | Rwy Surface Character: |
| | Phase: T/O | XDistance: *1M E APT |
| 01/13/82 | WASHINGTON, DC | Acft Mfr: BOEING/737-222 FAR Part: 121 SCHEDULED YDistance: |
| Rwy ID: 36 | Arpt Name: () | Owner Name: AIR FLORIDA, INC |
| Surface Type: ASPHALT | Wid: 150 | Operator Name/DBA: |
| Category: OTHER | Rwy Status: SNOW-WET | Rwy Surface Character: FULLY GROOVED |
| | Phase: T/O | XDistance: *.75 NM |
| 01/17/82 | HONOLULU, HI | Acft Mfr: CONVAIR/440 FAR Part: 135 SCHEDULED YDistance: |
| Rwy ID: | Arpt Name: HONOLULU INTL () | Owner Name: EMISSARY AIRWAYS, INC. |
| Surface Type: | Wid: | Operator Name/DBA: ISLAND AIRLINES HAWAII INC. |
| Category: OTHER | Rwy Status: | Rwy Surface Character: |
| | Phase: T/O | XDistance: *2M APT |
| 02/16/82 | KING SALMON, AK | Acft Mfr: NIKON/YS-11A FAR Part: 121 SCHEDULED YDistance: UNK |
| Rwy ID: | Arpt Name: () | Owner Name: REEVE ALEUTIAN |
| Surface Type: | Wid: | Operator Name/DBA: |
| Category: OTHER | Rwy Status: | Rwy Surface Character: |
| | Phase: LND | XDistance: UNK |
| 07/09/82 | NEW ORLEANS, LA | Acft Mfr: BOEING/727-235 FAR Part: 121 SCHEDULED YDistance: |
| Rwy ID: 10 | Arpt Name: () | Owner Name: PAN AMERICAN WORLD A/M |
| Surface Type: CONCRETE | Wid: 150 | Operator Name/DBA: |
| Category: OTHER | Rwy Status: WET | Rwy Surface Character: POROUS |
| | Phase: T/O | XDistance: *.75NM |
| 09/17/82 | INDIANAPOLIS, IN | Acft Mfr: BEECH/G18S FAR Part: 135 SCHEDULED YDistance: UNK |
| Rwy ID: 31 | Arpt Name: INDIANAPOLIS INTERN. (IND) | Owner Name: INDIANAPOLIS AIR CHARTER, INC. |
| Surface Type: ASPHALT | Wid: 150 | Operator Name/DBA: |
| Category: OTHER | Rwy Status: WET | Rwy Surface Character: FULLY GROOVED |
| | Phase: T/O | XDistance: 2700 APP |
| 01/07/83 | ANIAP, AK | Acft Mfr: CESSNA/207A FAR Part: 135 SCHEDULED YDistance: UNK |
| Rwy ID: 28 | Arpt Name: ANIAK (ANI) | Owner Name: HAROLDS AIR SERVICE |
| Surface Type: | Wid: 150 | Operator Name/DBA: HAROLDS AIR SERVICE |
| Category: OTHER | Rwy Status: | Rwy Surface Character: ROUGH TEXTURE |
| | Phase: T/O | XDistance: 2650 |
| 01/11/83 | DETROIT, MI | Acft Mfr: MCDONNELL-DOUGLAS/DC-8-54F FAR Part: 121 SCHEDULED YDistance: R1200 |
| Rwy ID: 21 R | Arpt Name: DETROIT METRO (DTW) | Owner Name: UNITED AIRLINES |
| Surface Type: CONCRETE | Wid: 200 | Operator Name/DBA: |
| Category: OTHER | Rwy Status: DRY | Rwy Surface Character: FULLY GROOVED |
| | Phase: T/O | XDistance: 8800 |
| 02/15/83 | HALLEY, ID | Acft Mfr: DEHAVILLAND/DHC-6-300 FAR Part: 135 SCHEDULED YDistance: |
| Rwy ID: 31 | Arpt Name: FRIEDMAN MEMORIEL () | Owner Name: SIERRA PACIFIC AIRLINES |
| Surface Type: | Wid: 100 | Operator Name/DBA: |
| Category: OTHER | Rwy Status: | Rwy Surface Character: |
| | Phase: LND | XDistance: *1.7M SE APT |
| 06/29/83 | KAHULUI, HI | Acft Mfr: DOUGLAS/DC-6-C558 FAR Part: 121 SCHEDULED YDistance: R5280 |
| Rwy ID: | Arpt Name: KAHULUI (OGG) | Owner Name: PACIFIC AIR EXPRESS |
| Surface Type: | Wid: | Operator Name/DBA: |
| Category: OTHER | Rwy Status: | Rwy Surface Character: |
| | Phase: LND | XDistance: 6120 |

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| 07/26/83 | RICHMOND, VA Rwy ID: 33 Lgth: 8999 Surface Type: ASPHALT Category: OTHER | Arprt Name: BYRD INTERNATIONAL (RIC) Wid: 150 Rwy Status: DRY Phase: LND | Owner Name: SILVER KRIS SERVICES LTD. Operator Name/DBA: Rwy Surface Character: XDistance: *1M SSE APT | Acft Mfr: PIPER/PA-31-350 FAR Part: 135 SCHEDULED YDistance: |
| 09/08/83 | HAULUA-KONA, HI Rwy ID: Lgth: Surface Type: Category: OTHER | Arprt Name: KEAHOLE (KOA) Wid: Rwy Status: Phase: T/O | Owner Name: AIRTOUR ACQUISITION CORP. Operator Name/DBA: PANORAMA AIRTOUR Rwy Surface Character: XDistance: *1M NW APT | Acft Mfr: BEECH/H18S FAR Part: 135 SCHEDULED YDistance: |
| 08/02/84 | VIEQUES, PR Rwy ID: 5 Lgth: 2500 Surface Type: ASPHALT Category: OTHER | Arprt Name: VIEQUES (VQS) Wid: 75 Rwy Status: DRY Phase: T/O | Owner Name: VIEQUES AIR LINK, INC Operator Name/DBA: VIEQUES AIR LINK, INC. Rwy Surface Character: XDistance: UNK | Acft Mfr: BRITTEN NORMAN/BN-2A ISLANDER FAR Part: 135 SCHEDULED YDistance: UNK |
| 09/07/84 | MAPLES, FL Rwy ID: 1 Lgth: 5000 Surface Type: ASPHALT Category: OTHER | Arprt Name: MAPLES MUNI (APF) Wid: 150 Rwy Status: DRY Phase: T/O | Owner Name: PROVINCETOWN-BOSTON AIRLINES Operator Name/DBA: PROVINCETOWN-BOSTON AIRLINES Rwy Surface Character: XDistance: *3.5M NE APT | Acft Mfr: CESSNA/402C FAR Part: 135 SCHEDULED YDistance: |
| 10/18/84 | SEDONA, AZ Rwy ID: Lgth: Surface Type: Category: OTHER | Arprt Name: SEDONA (SEZ) Wid: Rwy Status: Phase: LND | Owner Name: ELLIS F. GARDNER Operator Name/DBA: SEDONA AIR CENTER Rwy Surface Character: SMOOTH XDistance: *5M S APT | Acft Mfr: CESSNA/T207A FAR Part: 135 SCHEDULED YDistance: |
| 12/06/84 | JACKSONVILLE, FL Rwy ID: 31 Lgth: 7700 Surface Type: ASPHALT Category: OTHER | Arprt Name: JACKSONVILLE INT'L (JAX) Wid: 150 Rwy Status: DRY Phase: T/O | Owner Name: PROVINCETOWN-BOSTON AIRLINES Operator Name/DBA: PROVINCETOWN-BOSTON AIRLINES Rwy Surface Character: XDistance: 7800 | Acft Mfr: EMBRAER BANDEIRANTE/EMB-110P1 FAR Part: 135 SCHEDULED YDistance: R 85 |
| 12/12/84 | MIAMI, FL Rwy ID: 12 Lgth: 9600 Surface Type: ASPHALT Category: OTHER | Arprt Name: MIAMI INTERNATIONAL (MI) Wid: 150 Rwy Status: DRY Phase: LND | Owner Name: VINCENT J. FINAZZO Operator Name/DBA: SOUTHERN EXPRESS AIRWAYS, INC. Rwy Surface Character: XDistance: *5M | Acft Mfr: PIPER/PA-31-350 FAR Part: 135 SCHEDULED YDistance: |
| 12/17/84 | BAINBRIDGE, NY Rwy ID: 7 Lgth: 4220 Surface Type: ASPHALT Category: OTHER | Arprt Name: SIDNEY (N23) Wid: 75 Rwy Status: DRY Phase: LND | Owner Name: FORD-AIRE, INC. Operator Name/DBA: SUSQUEHANNA AIRLINES, INC. Rwy Surface Character: XDistance: *85M N APT | Acft Mfr: PIPER/PA-23-250 FAR Part: 135 SCHEDULED YDistance: |
| 01/21/85 | RENO, NV Rwy ID: 16 R Lgth: 9000 Surface Type: CONCRETE Category: OTHER | Arprt Name: RENO CANNON INTL (RNO) Wid: 150 Rwy Status: DRY Phase: T/O | Owner Name: CONSOLIDATED CARRIER INT'L Operator Name/DBA: GALAXY AIRLINES, INC. Rwy Surface Character: XDistance: 7920 | Acft Mfr: LOCKHEED/188C FAR Part: 121 NON-SCHEDULED YDistance: R3960 |
| 02/04/85 | SOLDOTNA, AK Rwy ID: 25 Lgth: 4973 Surface Type: MACADAM Category: OTHER | Arprt Name: SOLDOTNA (SXO) Wid: 130 Rwy Status: SNOW-COMPACTED Phase: LND | Owner Name: NORTH PACIFIC AIRLINES Operator Name/DBA: NORTH PACIFIC AIRLINES Rwy Surface Character: SMOOTH XDistance: *1.5M SE APT | Acft Mfr: BEECH/65-A80 FAR Part: 135 SCHEDULED YDistance: |

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| 02/05/85 PHILADELPHIA, PA Rwy ID: 9 L Lgth: 9500 Surface Type: CONCRETE Category: OTHER | Arpt Name: PHILADELPHIA INTL (PHL) Wid: 150 Rwy Status: SNOW-COMPACTED Phase: T/O | Owner Name: AIRBORNE EXPRESS, INC. Operator Name/DBA: Rwy Surface Character: XDistance: UNK | Acft Mfr: MCDONNELL-DOUGLAS/DC-9-15 FAR Part: 121 SCHEDULED YDistance: UNK |
| 02/06/85 ALTUS, OK Rwy ID: 17 Lgth: Surface Type: Category: OTHER | Arpt Name: ALTUS AFB (LTS) Wid: Rwy Status: DRY Phase: LND | Owner Name: ALTUS AIRLINE, INC Operator Name/DBA: ALTUS AIRLINE, INC. Rwy Surface Character: XDistance: *1.5 NNE | Acft Mfr: CESSNA/4028 FAR Part: 135 SCHEDULED YDistance: |
| 04/06/85 WANTUCKET, MA Rwy ID: 24 Lgth: 6303 Surface Type: ASPHALT Category: OTHER | Arpt Name: WANTUCKET (ACK) Wid: 50 Rwy Status: MET Phase: LND | Owner Name: RICHARD K. & DAWN DERRIDINGER Operator Name/DBA: WANTUCKET AIRCRAFT MAINT., INC. Rwy Surface Character: XDistance: 3711 | Acft Mfr: PIPER/PA-31-310 FAR Part: 135 SCHEDULED YDistance: L 192 |
| 05/17/85 LATROBE, PA Rwy ID: 23 Lgth: 5501 Surface Type: ASPHALT Category: OTHER | Arpt Name: WESTMORELAND COUNTY (LBE) Wid: 100 Rwy Status: MET Phase: LND | Owner Name: CUMBERLAND AIRLINES Operator Name/DBA: CUMBERLAND AIRLINES Rwy Surface Character: XDistance: *3.8M SE APT | Acft Mfr: PIPER/PA-31-350 FAR Part: 135 SCHEDULED YDistance: |
| 05/31/85 NASHVILLE, TN Rwy ID: 20 L Lgth: 7700 Surface Type: CONCRETE Category: OTHER | Arpt Name: NASHVILLE METRO (BNA) Wid: 150 Rwy Status: DRY Phase: T/O | Owner Name: TAG Operator Name/DBA: GENERAL AVIATION, INC. Rwy Surface Character: XDistance: 100 | Acft Mfr: GULFSTREAM/G-159 FAR Part: 121 SCHEDULED YDistance: L1720 |
| 06/19/85 WEST TRENTON, NJ Rwy ID: 24 Lgth: 6006 Surface Type: CONCRETE Category: OTHER | Arpt Name: MERCER COUNTY (TTN) Wid: 150 Rwy Status: DRY Phase: T/O | Owner Name: PROVIDENCE AIRLINE CORP. Operator Name/DBA: Rwy Surface Character: XDistance: 5280 | Acft Mfr: GENERAL DYNAMICS/240-27 FAR Part: 121 NON-SCHEDULED YDistance: L2000 |
| 08/02/85 DALLAS/FT WORT, TX Rwy ID: 17 L Lgth: 11388 Surface Type: CONCRETE Category: OTHER | Arpt Name: DALLAS/FORT WORTH INTL (DFW) Wid: 150 Rwy Status: MET Phase: LND | Owner Name: DELTA AIRLINES, INC. Operator Name/DBA: Rwy Surface Character: FULLY GROOVED XDistance: 6336 | Acft Mfr: LOCKHEED/L-1011-385-1 FAR Part: 121 SCHEDULED YDistance: L 360 |
| 08/25/85 AUBURN, ME Rwy ID: 4 Lgth: 5000 Surface Type: ASPHALT Category: OTHER | Arpt Name: AUBURN-LEWISTON MUNI () Wid: 75 Rwy Status: MET Phase: LND | Owner Name: BAR HARBOR AIRLINES Operator Name/DBA: Rwy Surface Character: POROUS SMOOTH XDistance: 3246 | Acft Mfr: BEECH/99 FAR Part: 135 SCHEDULED YDistance: R 441 |
| 09/06/85 MILWAUKEE, WI Rwy ID: 19 L Lgth: 9690 Surface Type: ASPHALT Category: OTHER | Arpt Name: GENERAL MITCHELL FIELD (MKE) Wid: 200 Rwy Status: DRY Phase: T/O | Owner Name: MIDWEST EXPRESS AIRLINES, INC. Operator Name/DBA: Rwy Surface Character: SMOOTH FULLY GROOVED XDistance: 1320 | Acft Mfr: DOUGLAS/DC-9-14 FAR Part: 121 SCHEDULED YDistance: R1040 |
| 11/01/85 BETHEL, AK Rwy ID: 18 Lgth: 6399 Surface Type: ASPHALT Category: OTHER | Arpt Name: BETHEL (BET) Wid: 150 Rwy Status: DRY Phase: T/O | Owner Name: HERMENS AIR, INC. Operator Name/DBA: HERMENS AIR, INC. Rwy Surface Character: XDistance: 931 | Acft Mfr: CESSNA/208 FAR Part: 135 SCHEDULED YDistance: R1993 |

Appendix 7. LISTING OF OTHER A/I'S IN AIRPORT VICINITY

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| 03/13/86 | ALPENA, MI | Arpt Name: PHELPS-COLLINS (APN) | Owner Name: TITAN PARTNERS | Acft Mfr: EMBRAER/EMB-110P1 |
| Rwy ID: 1 | Lgth: 9001 | Wid: 150 | Operator Name/DBA: SIMMONS AIRLINES | FAR Part: 135 SCHEDULED |
| Surface Type: CONCRETE | | Rwy Status: MET | Rwy Surface Character: ROUGH TEXTURE | |
| Category: OTHER | | Phase: LND | XDistance: 7920 | YDistance: L 300 |
| 10/04/86 | KELLY AFB, TX | Arpt Name: KELLY AFB (KSK) | Owner Name: TRANSAMERICA | Acft Mfr: LOCKHEED/382G |
| Rwy ID: 15 | Lgth: 11550 | Wid: 300 | Operator Name/DBA: SOUTHERN AIR TRANSPORT | FAR Part: 121 NON-SCHEDULED |
| Surface Type: CONCRETE | | Rwy Status: DRY | Rwy Surface Character: | |
| Category: OTHER | | Phase: T/O | XDistance: 7357 | YDistance: L1599 |
| 04/01/87 | ANCHORAGE, AK | Arpt Name: MERRILL (MR1) | Owner Name: WILBUR'S FLIGHT OPERATIONS | Acft Mfr: CESSNA/C-402 |
| Rwy ID: 24 | Lgth: 4000 | Wid: 100 | Operator Name/DBA: WILBUR'S INC. | FAR Part: 135 SCHEDULED |
| Surface Type: | | Rwy Status: | Rwy Surface Character: | |
| Category: OTHER | | Phase: LND | XDistance: 3932 | YDistance: R7639 |
| 04/12/87 | HYANNIS, MA | Arpt Name: () | Owner Name: | Acft Mfr: CESSNA/402C |
| Rwy ID: | Lgth: | Wid: | Operator Name/DBA: BOSTON/PROVINCETOWN AIRLINE | FAR Part: 135 SCHEDULED |
| Surface Type: | | Rwy Status: | Rwy Surface Character: | |
| Category: OTHER | | Phase: LND | XDistance: *.5M NE | YDistance: |
| 04/13/87 | KANSAS CITY, MO | Arpt Name: () | Owner Name: | Acft Mfr: BOEING/707-351C |
| Rwy ID: | Lgth: | Wid: | Operator Name/DBA: BUFFALO AIRWAYS | FAR Part: 121 SCHEDULED |
| Surface Type: | | Rwy Status: | Rwy Surface Character: | |
| Category: OTHER | | Phase: LND | XDistance: *.3M SW APT | YDistance: |
| 11/15/87 | DENVER, CO | Arpt Name: () | Owner Name: | Acft Mfr: MCDONNELL DOUGLAS/DC-9-10 |
| Rwy ID: | Lgth: | Wid: | Operator Name/DBA: CONTINENTAL AIRLINES | FAR Part: 121 SCHEDULED |
| Surface Type: | | Rwy Status: | Rwy Surface Character: | |
| Category: OTHER | | Phase: T/O | XDistance: 8257 | YDistance: R 130 |
| 12/17/87 | CHANTILLY, VA | Arpt Name: () | Owner Name: | Acft Mfr: SWEARINGEN/SA-226 |
| Rwy ID: | Lgth: | Wid: | Operator Name/DBA: AVAIR INCORPORATED | FAR Part: 135 SCHEDULED |
| Surface Type: | | Rwy Status: | Rwy Surface Character: | |
| Category: OTHER | | Phase: LND | XDistance: *.24M S | YDistance: |